SGS North America Inc.

Report of Analysis

Client Sample ID:	07960 MW-29		
Lab Sample ID:	FA65220-34	**Date Sampled:**	06/13/19
Matrix:	AQ - Ground Water	**Date Received:**	06/15/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P64684.D	1	06/22/19 06:40	AB	n/a	n/a	VP2489
Run #2 [a]	C0133647.D	10	06/24/19 16:21	AJ	n/a	n/a	VC5314

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	78.9	1.0	0.31	ug/l	
108-88-3	Toluene	1.2	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	4.1	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	13.7	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.9	1.0	0.23	ug/l	
91-20-3	Naphthalene	8.3	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	115 [b]	10	3.1	ug/l	
108-20-3	Di-Isopropyl Ether	4.4	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	8140 [b]	200	53	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	596	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	100%	79-125%
2037-26-5	Toluene-D8	98%	100%	85-112%
460-00-4	4-Bromofluorobenzene	98%	98%	83-118%

(a) Sample vial(s) contained significant headspace; reported results are considered minimum values.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960 MW-29		
Lab Sample ID:	FA65220-34	**Date Sampled:**	06/13/19
Matrix:	AQ - Ground Water	**Date Received:**	06/15/19
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD107194.D	1	06/18/19 20:37	NM	06/18/19 10:30	OP75506	GDD3085
Run #2							

	Initial Volume	Final Volume
Run #1	37.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane [a]	ND	0.019	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	80%		63-137%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960 MW-30			
Lab Sample ID:	FA65220-35		**Date Sampled:**	06/13/19
Matrix:	AQ - Ground Water		**Date Received:**	06/15/19
Method:	SW846 8260B		**Percent Solids:**	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P64685.D	10	06/22/19 07:06	AB	n/a	n/a	VP2489
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	584	10	3.1	ug/l	
108-88-3	Toluene	50.8	10	3.0	ug/l	
100-41-4	Ethylbenzene	21.7	10	3.6	ug/l	
1330-20-7	Xylene (total)	358	30	7.2	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	2.3	ug/l	
91-20-3	Naphthalene	56.7	50	10	ug/l	
107-06-2	1,2-Dichloroethane	36.4	10	3.1	ug/l	
108-20-3	Di-Isopropyl Ether	ND	10	2.4	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	500	100	ug/l	
64-17-5	Ethyl Alcohol	ND	2000	820	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	20	2.4	ug/l	
75-85-4	Tert-Amyl Alcohol	2130	200	53	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	20	2.4	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	200	53	ug/l	
762-75-4	Tert-Butyl Formate	ND	200	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960 MW-30		
Lab Sample ID:	FA65220-35	**Date Sampled:**	06/13/19
Matrix:	AQ - Ground Water	**Date Received:**	06/15/19
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD107195.D	1	06/18/19 20:55	NM	06/18/19 10:30	OP75506	GDD3085
Run #2							

	Initial Volume	Final Volume
Run #1	37.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane [a]	ND	0.019	0.0093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	72%		63-137%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960 DUP A		
Lab Sample ID:	FA65220-36	**Date Sampled:**	06/13/19
Matrix:	AQ - Ground Water	**Date Received:**	06/15/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P64674.D	100	06/22/19 02:32	AB	n/a	n/a	VP2489
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5970	100	31	ug/l	
108-88-3	Toluene	154	100	30	ug/l	
100-41-4	Ethylbenzene	848	100	36	ug/l	
1330-20-7	Xylene (total)	3320	300	72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	23	ug/l	
91-20-3	Naphthalene	358	500	100	ug/l	J
107-06-2	1,2-Dichloroethane	397	100	31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	100	24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	8200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	24	ug/l	
75-85-4	Tert-Amyl Alcohol	8800	2000	530	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	200	24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	2000	530	ug/l	
762-75-4	Tert-Butyl Formate	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960 DUP A		
Lab Sample ID:	FA65220-36	**Date Sampled:**	06/13/19
Matrix:	AQ - Ground Water	**Date Received:**	06/15/19
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD107212.D	1	06/19/19 18:08	NM	06/18/19 10:30	OP75506	GDD3086
Run #2							

	Initial Volume	Final Volume
Run #1	37.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	0.51	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	66%		63-137%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960 DUP B		
Lab Sample ID:	FA65220-37	**Date Sampled:**	06/13/19
Matrix:	AQ - Ground Water	**Date Received:**	06/15/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P64686.D	20	06/22/19 07:31	AB	n/a	n/a	VP2489
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1390	20	6.2	ug/l	
108-88-3	Toluene	40.3	20	6.0	ug/l	
100-41-4	Ethylbenzene	119	20	7.1	ug/l	
1330-20-7	Xylene (total)	606	60	14	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	4.6	ug/l	
91-20-3	Naphthalene	83.9	100	20	ug/l	J
107-06-2	1,2-Dichloroethane	92.5	20	6.2	ug/l	
108-20-3	Di-Isopropyl Ether	ND	20	4.8	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	1000	200	ug/l	
64-17-5	Ethyl Alcohol	ND	4000	1600	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	40	4.7	ug/l	
75-85-4	Tert-Amyl Alcohol	2810	400	110	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	40	4.9	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	400	110	ug/l	
762-75-4	Tert-Butyl Formate	ND	400	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected　MDL = Method Detection Limit　J = Indicates an estimated value
RL = Reporting Limit　B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range　N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960 DUP B		
Lab Sample ID:	FA65220-37	**Date Sampled:**	06/13/19
Matrix:	AQ - Ground Water	**Date Received:**	06/15/19
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DD107199.D	1	06/18/19 22:07	NM	06/18/19 10:30	OP75506	GDD3085
Run #2							

	Initial Volume	Final Volume
Run #1	37.2 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane [a]	ND	0.019	0.0094	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	69%		63-137%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960 DUP C		
Lab Sample ID:	FA65220-38	**Date Sampled:**	06/13/19
Matrix:	AQ - Ground Water	**Date Received:**	06/15/19
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P64687.D	100	06/22/19 07:56	AB	n/a	n/a	VP2489
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3340	100	31	ug/l	
108-88-3	Toluene	9250	100	30	ug/l	
100-41-4	Ethylbenzene	1280	100	36	ug/l	
1330-20-7	Xylene (total)	12400	300	72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	23	ug/l	
91-20-3	Naphthalene	1290	500	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	100	24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	8200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	2000	530	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	200	24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	2000	530	ug/l	
762-75-4	Tert-Butyl Formate	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	07960 DUP C		
Lab Sample ID:	FA65220-38	**Date Sampled:**	06/13/19
Matrix:	AQ - Ground Water	**Date Received:**	06/15/19
Method:	SW846 8011 SW846 8011	**Percent Solids:**	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	DD107213.D	10	06/19/19 18:26	NM	06/18/19 10:30	OP75506	GDD3086
Run #2							

	Initial Volume	Final Volume
Run #1	37.6 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	3.9	0.19	0.093	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	0% [b]		63-137%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
3,3-Dimethyl-1-Butanol	624-95-3	SW846 8260B	AQ	Certified by SOP MS005
Di-Isopropyl Ether	108-20-3	SW846 8260B	AQ	Certified by SOP MS005
Tert-Amyl Alcohol	75-85-4	SW846 8260B	AQ	Certified by SOP MS005
Tert-Butyl Formate	762-75-4	SW846 8260B	AQ	Certified by SOP MS005

FA65220

SGS North America Inc - Orlando
Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB #: PAGE 1 OF 4

SGS - ORLANDO Quote #   SKIFF #

Client / Reporting Information

Company Name: Geological Resources Inc
Address: 3502 Max Hayes Rd.
City: Monroe State: NC Zip: 28110
Project Contact: Scott Ball Email: wsb@
Phone #: 704-845-4010
Sampler(s) Name(s) (Printed)
Sampler 1: A.L. Sampler 2: J.A.

Project Information

Project Name: 378 Truck Stop
Street: 731 Hwy 378
City: Edgefield State: SC
Project #: 4422
Fax #: UST Permit #07960
Client Purchase Order #

Analytical Information: BTEX, M, DE, Naphth, 1,2-DCA 8260 / Oxy's by 8260; EDB 8011

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL - Sludge, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnA	DI Water	MEOH	BTEX, M, DE, Naphth, 1,2-DCA 8260 / Oxy's by 8260	EDB 8011		Lab Use Only
1	07960 TW1	6/12/19	1215	SL	GW	5			X							X	X		
2	07960 TW2	6/12/19	1303	SL	GW	5			X							X	X		
3	07960 TW3	6/12/19	1552	SL	GW	5			X							X	X		
4	07960 FB	6/12/19	0930	JA	GW	5			X							X	X		
5	07960 TB	6/12/19	0900	J.A	GW	5			X							X			
6	07960 TW4	6/13/19	1153	JA	GW	5			X							X	X		
7	07960 TW5	6/13/19	0733	JA	GW	5			X							X	X		
8	07960 TW6 ~~ad.~~ 7	6/13/19	0843	JA	GW	5			X							X	X		
9	07960 TW8	6/13/19	0921	JA	GW	5			X							X	X		
10	07960 TW10	6/13/19	1002	JA	GW	5			X							X	X		
11	07960 TW11	6/13/19	1042	JA	GW	5			X							X	X		
12	07960 MW-1	6/13/19	1936	JA	GW	5			X							X	X		

Turnaround Time (Business days)

Approved By: / Date:

- 10 Day (Business)
- 7 Day
- 5 Day
- 3 Day RUSH
- 2 Day RUSH
- 1 Day RUSH
- Other

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [x] EDD'S

Comments / Remarks

UST Permit # 07960

SCDHEC UST Management Division

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 [signature]	6/14/19	2 FedEx	3		4
Relinquished by/Affiliation 5	Date Time:	Received By/Affiliation 6	Relinquished By/Affiliation 7	Date Time:	Received By/Affiliation 8

Lab Use Only: Cooler Temperature (s) Celsius (corrected): 1.3/4.1

http://www.sgs.com/en/terms-and-conditions

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4.2
4

FA65220: Chain of Custody
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SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

FA65220

SGS - ORLANDO JOB # :

PAGE 2 OF 4

SGS - ORLANDO Quote #	SKIFF #

Client / Reporting Information

- Company Name: Geological Resources Inc.
- Address: 3502 Hayes Rd
- City: Monroe State: NC Zip: 28110
- Project Contact: Scott Ball Email: wsb@
- Phone #: 704-845-4010
- Sampler(s) Name(s) (Printed) Sampler 1: A.L. Sampler 2: T.A.

Project Information

- Project Name: 378 Truck Stop
- Street: 731 Hwy 378
- City: Edgefield State: SC
- Project #: 4421
- Fax #: UST Permit # 07960
- Client Purchase Order #

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL - Sludge, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH-ZnAc	DI Water	MeOH	VTEX, MTBE, Naphth, 1,2-DCA, Oxygenates by 8260	EDB by 8011	LAB USE ONLY
	~~07960 MW-5~~	~~6/13/19~~	~~0845~~	~~AL~~	~~GW~~	~~5~~			~~X~~							X	X	
13	07960 MW-2	6/13/19	0945	AL	GW	5			X							X	X	
14	07960 MW-4	6/13/19	1900	AL	GW	5			X							X	X	
15	07960 MW-6	6/13/19	1015	AL	GW	5			X							X	X	
16	07960 MW-8	6/13/19	1120	AL	GW	5			X							X	X	
17	07960 MW-11 (Hot)	6/13/19	1510	AL	GW	5			X							X	X	
18	07960 MW-12 (Hot)	6/13/19	1635	AL	GW	5			X							X	X	
19	07960 MW-13 (Hot)	6/13/19	1810	AL	GW	5			X							X	X	
20	07960 MW-20	6/13/19	0925	AL	GW	5			X							X	X	
21	07960 MW-21	6/13/19	1050	AL	GW	5			X							X	X	
22	07960 MW-22 (Hot)	6/13/19	1715	AL	GW	5			X							X	X	
23	07960 MW-27	6/13/19	1200	AL	GW	5			X							X	X	

Turnaround Time (Business days)

- 10 Day (Business)
- 7 Day
- 5 Day
- 3 Day RUSH
- 2 Day RUSH
- 1 Day RUSH
- Other

Approved By: / Date:

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☒ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☒ EDD'S

Comments / Remarks

UST Permit #07960

SCDHEC UST Management Division

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 A.L.	6/14/19	2 FedEx	3		4
Relinquished by/Affiliation 5	Date Time:	Received By/Affiliation 6	Relinquished By/Affiliation 7	Date Time:	Received By/Affiliation 8

Lab Use Only : Cooler Temperature (s) Celsius (corrected):

http://www.sgs.com/en/terms-and-conditions

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FA65220: Chain of Custody
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FA65220

SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB #: PAGE 3 OF 34

SGS - ORLANDO Quote #	SKIFF #

Client / Reporting Information

Company Name: Geological Resources Inc	Project Name: 378 Truck Stop
Address: 3502 Hayes Rd	Street 731 Hwy 378
City: Monroe State: NC Zip: 28110	City Edgefield State SC
Project Contact: Scott Ball Email: wsb@	Project # 4422
Phone #: 704-845-4010	Fax# UST Permit #07960
Sampler(s) Name(s) (Printed) Sampler 1: A.L. Sampler 2: J.A.	Client Purchase Order #

Analytical Information: BTEX, MTBE, Naphthalene, 1,2-DCA, 5 Oxygenates by 8260; EDB by 8011

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	BTEX, MTBE, Naphthalene, 1,2-DCA, 5 Oxygenates by 8260	EDB by 8011	LAB USE ONLY
24	07960 MW-3	6/13/19	2008	JA	GW	5			X							X	X	
25	07960 MW-5	6/13/19	0945	AL	GW	5			X							X	X	
26	07960 MW-7	6/13/19	2035	JA	GW	5			X							X	X	
27	07960 MW-9	6/13/19	1534	JA	GW	5			X							X	X	
28	07960 MW-10	6/13/19	1453	JA	GW	5			X							X	X	
29	07960 MW-17	6/13/19	1621	AL	GW	5			X							X	X	
30	07960 MW-19	6/13/19	1743	JA	GW	5			X							X	X	
31	07960 MW-23	6/13/19	1621	JA	GW	5			X							X	X	
32	07960 MW-25	6/13/19	1704	JA	GW	5			X							X	X	
33	07960 MW-28	6/13/19	0755	AL	GW	5			X							X	X	
34	07960 MW-29	6/13/19	2050	AL	GW	5			X							X	X	
35	07960 MW-30	6/13/19	1550	AL	GW	5			X							X	X	

Turnaround Time (Business days)

- 10 Day (Business) — Approved By: / Date:
- 7 Day
- 5 Day
- 3 Day RUSH
- 2 Day RUSH
- 1 Day RUSH
- Other

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☒ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☒ EDD'S

Comments / Remarks

UST Permit #07960

SCDHEC UST Management Division

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 [signature]	6/14/19	2 FedEx	3		4
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only: Cooler Temperature (s) Celsius (corrected):

http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

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FA65220: Chain of Custody
Page 3 of 5

FA65220

SGS North America Inc - Orlando

Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

SGS - ORLANDO JOB #: PAGE 4 OF 4

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: Geological Resources Inc.
Address: 3502 Hayes Rd.
City: Monroe State: NC Zip: 28110
Project Contact: Scott Bull Email: wsb@
Phone #: 704-845-4010
Sampler(s) Name(s) (Printed)
Sampler 1: A.L. Sampler 2: J.A.

Project Information

Project Name: 378 Truck Stop
Street: 731 Hwy 378
City: Edgefield State: SC
Project #: 4492
Fax #: UST Permit #07960
Client Purchase Order #

Analytical Information: BTEX, MTBE, naphthalene, 5 oxygenates by 8260; EDB by 8011

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	8260	EDB by 8011	LAB USE ONLY
36	07960 DVP A	6/13/14	2030	J.A.	GW	5			X						X	X	
37	07960 DVP B	6/13/14	2105	AL	GW	5			X						X	X	
38	07960 DVP C	6/13/14	2100	A.L.	GW	5			X						X	X	
	07960																
	07960																
	07960																

Turnaround Time (Business days)

- 10 Day (Business) — circled
- 7 Day
- 5 Day
- 3 Day RUSH
- 2 Day RUSH
- 1 Day RUSH
- Other

Approved By: / Date:

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [x] EDD'S

Comments / Remarks

UST Permit #07960

SCDHEC UST Management Division

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 [signature]	6/14/14	2 FedEx	3		4
5		6	7		8

Lab Use Only: Cooler Temperature (s) Celsius (corrected):

http://www.sgs.com/en/terms-and-conditions

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

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FA65220: Chain of Custody
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SGS Sample Receipt Summary

Job Number: FA65220 **Client:** GEOLOGIC RESOURCES **Project:** 378 TRUCK STOP

Date / Time Received: 6/15/2019 9:00:00 AM **Delivery Method:** FX **Airbill #'s:** 7879 0007 2781

Therm ID: IR 1; **Therm CF:** 0.4; **# of Coolers:** 2

Cooler Temps (Raw Measured) °C: Cooler 1: (0.9); Cooler 2: (3.7);

Cooler Temps (Corrected) °C: Cooler 1: (1.3); Cooler 2: (4.1);

Cooler Information	Y	N
1. Custody Seals Present	☑	☐
2. Custody Seals Intact	☑	☐
3. Temp criteria achieved	☑	☐
4. Cooler temp verification	IR Gun	
5. Cooler media	Ice (Bag)	

Trip Blank Information	Y	N	N/A
1. Trip Blank present / cooler	☑	☐	☐
2. Trip Blank listed on COC	☑	☐	☐
	W	**S**	**N/A**
3. Type Of TB Received	☑	☐	☐

Sample Information	Y	N	N/A
1. Sample labels present on bottles	☑	☐	
2. Samples preserved properly	☑	☐	
3. Sufficient volume/containers recvd for analysis:	☑	☐	
4. Condition of sample	Intact		
5. Sample recvd within HT	☑	☐	
6. Dates/Times/IDs on COC match Sample Label	☑	☐	
7. VOCs have headspace	☐	☑	☐
8. Bottles received for unspecified tests	☐	☑	
9. Compositing instructions clear	☐	☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐	☐	☑
11. % Solids Jar received?	☐	☐	☑
12. Residual Chlorine Present?	☐	☐	☑

Misc. Information

Number of Encores: 25-Gram ______ 5-Gram ______ Number of 5035 Field Kits: ______ Number of Lab Filtered Metals: ______

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) ____________

Residual Chlorine Test Strip Lot #: ____________

Comments

SM001
Rev. Date 05/24/17

Technician: PETERH Date: 6/15/2019 9:00:00 AM Reviewer: __________ Date: __________

FA65220: Chain of Custody
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MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC5308-MB	C0133510.D	1	06/19/19	AJ	n/a	n/a	VC5308

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA65220-1, FA65220-2, FA65220-3, FA65220-4, FA65220-5, FA65220-6, FA65220-7, FA65220-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	87%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

Method Blank Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC5311-MB	C0133583.D	1	06/21/19	AJ	n/a	n/a	VC5311

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA65220-9, FA65220-10, FA65220-11, FA65220-12, FA65220-13, FA65220-14, FA65220-15, FA65220-16, FA65220-17, FA65220-18, FA65220-19, FA65220-20, FA65220-21, FA65220-22, FA65220-23, FA65220-24, FA65220-25, FA65220-26

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

Method Blank Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP2489-MB	P64669.D	1	06/22/19	AB	n/a	n/a	VP2489

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA65220-27, FA65220-28, FA65220-29, FA65220-30, FA65220-31, FA65220-32, FA65220-33, FA65220-34, FA65220-35, FA65220-36, FA65220-37, FA65220-38

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

Method Blank Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC5314-MB	C0133636.D	1	06/24/19	AJ	n/a	n/a	VC5314

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA65220-34

CAS No.	Compound	Result	RL	MDL	Units	Q
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Blank Spike Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC5308-BS	C0133508.D	1	06/19/19	AJ	n/a	n/a	VC5308

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA65220-1, FA65220-2, FA65220-3, FA65220-4, FA65220-5, FA65220-6, FA65220-7, FA65220-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	23.3	93	81-122
107-06-2	1,2-Dichloroethane	25	21.9	88	75-125
108-20-3	Di-Isopropyl Ether	25	21.1	84	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1240	99	55-126
64-17-5	Ethyl Alcohol	500	442	88	46-145
100-41-4	Ethylbenzene	25	24.7	99	81-121
637-92-3	Ethyl Tert Butyl Ether	25	19.2	77	71-120
1634-04-4	Methyl Tert Butyl Ether	25	19.0	76	72-117
91-20-3	Naphthalene	25	19.0	76	63-132
75-85-4	Tert-Amyl Alcohol	250	240	96	65-124
994-05-8	Tert-Amyl Methyl Ether	25	20.5	82	73-122
75-65-0	Tert-Butyl Alcohol	250	229	92	63-129
762-75-4	Tert-Butyl Formate	250	96.4	39* a	46-130
108-88-3	Toluene	25	24.6	98	80-120
1330-20-7	Xylene (total)	75	75.4	101	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	79-125%
2037-26-5	Toluene-D8	105%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

(a) Sporadic marginal failure.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC5311-BS	C0133581.D	1	06/21/19	AJ	n/a	n/a	VC5311

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA65220-9, FA65220-10, FA65220-11, FA65220-12, FA65220-13, FA65220-14, FA65220-15, FA65220-16, FA65220-17, FA65220-18, FA65220-19, FA65220-20, FA65220-21, FA65220-22, FA65220-23, FA65220-24, FA65220-25, FA65220-26

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	21.1	84	81-122
107-06-2	1,2-Dichloroethane	25	21.1	84	75-125
108-20-3	Di-Isopropyl Ether	25	19.7	79	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1160	93	55-126
64-17-5	Ethyl Alcohol	500	452	90	46-145
100-41-4	Ethylbenzene	25	23.0	92	81-121
637-92-3	Ethyl Tert Butyl Ether	25	18.8	75	71-120
1634-04-4	Methyl Tert Butyl Ether	25	19.6	78	72-117
91-20-3	Naphthalene	25	21.1	84	63-132
75-85-4	Tert-Amyl Alcohol	250	219	88	65-124
994-05-8	Tert-Amyl Methyl Ether	25	20.7	83	73-122
75-65-0	Tert-Butyl Alcohol	250	211	84	63-129
762-75-4	Tert-Butyl Formate	250	106	42* [a]	46-130
108-88-3	Toluene	25	22.2	89	80-120
1330-20-7	Xylene (total)	75	70.6	94	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

(a) Sporadic marginal failure.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP2489-BS	P64667.D	1	06/21/19	AB	n/a	n/a	VP2489

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA65220-27, FA65220-28, FA65220-29, FA65220-30, FA65220-31, FA65220-32, FA65220-33, FA65220-34, FA65220-35, FA65220-36, FA65220-37, FA65220-38

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.0	100	81-122
107-06-2	1,2-Dichloroethane	25	24.9	100	75-125
108-20-3	Di-Isopropyl Ether	25	23.8	95	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1150	92	55-126
64-17-5	Ethyl Alcohol	500	476	95	46-145
100-41-4	Ethylbenzene	25	24.6	98	81-121
637-92-3	Ethyl Tert Butyl Ether	25	23.1	92	71-120
1634-04-4	Methyl Tert Butyl Ether	25	25.5	102	72-117
91-20-3	Naphthalene	25	25.9	104	63-132
75-85-4	Tert-Amyl Alcohol	250	235	94	65-124
994-05-8	Tert-Amyl Methyl Ether	25	25.4	102	73-122
75-65-0	Tert-Butyl Alcohol	250	251	100	63-129
762-75-4	Tert-Butyl Formate	250	125	50	46-130
108-88-3	Toluene	25	24.7	99	80-120
1330-20-7	Xylene (total)	75	77.8	104	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	105%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC5314-BS	C0133635.D	1	06/24/19	AJ	n/a	n/a	VC5314

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA65220-34

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
107-06-2	1,2-Dichloroethane	25	24.4	98	75-125
75-85-4	Tert-Amyl Alcohol	250	256	102	65-124

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	96%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA65135-5MS	C0133516.D	50	06/20/19	AJ	n/a	n/a	VC5308
FA65135-5MSD	C0133517.D	50	06/20/19	AJ	n/a	n/a	VC5308
FA65135-5	C0133515.D	50	06/20/19	AJ	n/a	n/a	VC5308

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA65220-1, FA65220-2, FA65220-3, FA65220-4, FA65220-5, FA65220-6, FA65220-7, FA65220-8

CAS No.	Compound	FA65135-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	817		1250	1920	88	1250	1910	87	1	81-122/14
107-06-2	1,2-Dichloroethane	50 U		1250	1040	83	1250	1090	87	5	75-125/14
108-20-3	Di-Isopropyl Ether	50 U		1250	1100	88	1250	1120	90	2	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	2500 U		62500	63200	101	62500	62300	100	1	55-126/17
64-17-5	Ethyl Alcohol	10000 U		25000	21300	85	25000	19800	79	7	46-145/30
100-41-4	Ethylbenzene	526		1250	1700	94	1250	1770	100	4	81-121/14
637-92-3	Ethyl Tert Butyl Ether	100 U		1250	905	72	1250	962	77	6	71-120/14
1634-04-4	Methyl Tert Butyl Ether	1930		1250	2820	71*	1250	2950	82	5	72-117/14
91-20-3	Naphthalene	355		1250	1230	70	1250	1330	78	8	63-132/25
75-85-4	Tert-Amyl Alcohol	4090		12500	16300	98	12500	16100	96	1	65-124/23
994-05-8	Tert-Amyl Methyl Ether	42.6	J	1250	1030	79	1250	1080	83	5	73-122/13
75-65-0	Tert-Butyl Alcohol	1000 U		12500	14100	113	12500	14400	115	2	63-129/27
762-75-4	Tert-Butyl Formate	1000 U		12500	4540	36*	12500	4790	38*	5	46-130/33
108-88-3	Toluene	1120		1250	2300	94	1250	2340	98	2	80-120/14
1330-20-7	Xylene (total)	5250		3750	8780	94	3750	8870	97	1	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA65135-5	Limits
1868-53-7	Dibromofluoromethane	98%	100%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	95%	88%	79-125%
2037-26-5	Toluene-D8	103%	104%	103%	85-112%
460-00-4	4-Bromofluorobenzene	98%	100%	100%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA65220-22MS	C0133589.D	200	06/22/19	AJ	n/a	n/a	VC5311
FA65220-22MSD	C0133590.D	200	06/22/19	AJ	n/a	n/a	VC5311
FA65220-22	C0133587.D	200	06/21/19	AJ	n/a	n/a	VC5311

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA65220-9, FA65220-10, FA65220-11, FA65220-12, FA65220-13, FA65220-14, FA65220-15, FA65220-16, FA65220-17, FA65220-18, FA65220-19, FA65220-20, FA65220-21, FA65220-22, FA65220-23, FA65220-24, FA65220-25, FA65220-26

CAS No.	Compound	FA65220-22 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	3040		5000	7150	82	5000	7040	80*	2	81-122/14
107-06-2	1,2-Dichloroethane	106	J	5000	4690	92	5000	4430	86	6	75-125/14
108-20-3	Di-Isopropyl Ether	ND		5000	4110	82	5000	4120	82	0	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		250000	232000	93	250000	246000	98	6	55-126/17
64-17-5	Ethyl Alcohol	ND		100000	86700	87	100000	91600	92	5	46-145/30
100-41-4	Ethylbenzene	1450		5000	6100	93	5000	5960	90	2	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		5000	3780	76	5000	3920	78	4	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		5000	3980	80	5000	3940	79	1	72-117/14
91-20-3	Naphthalene	1170		5000	5210	81	5000	5300	83	2	63-132/25
75-85-4	Tert-Amyl Alcohol	2490	J	50000	46400	88	50000	52300	100	12	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		5000	4140	83	5000	4200	84	1	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		50000	44400	89	50000	48400	97	9	63-129/27
762-75-4	Tert-Butyl Formate	ND		50000	20800	42*	50000	20900	42*	0	46-130/33
108-88-3	Toluene	9720		5000	13700	80	5000	13500	76*	1	80-120/14
1330-20-7	Xylene (total)	12900		15000	26800	93	15000	26400	90	2	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA65220-22	Limits
1868-53-7	Dibromofluoromethane	101%	100%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	95%	79-125%
2037-26-5	Toluene-D8	104%	104%	103%	85-112%
460-00-4	4-Bromofluorobenzene	97%	100%	94%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA65220-36MS	P64678.D	200	06/22/19	AB	n/a	n/a	VP2489
FA65220-36MSD	P64679.D	200	06/22/19	AB	n/a	n/a	VP2489
FA65220-36	P64674.D	100	06/22/19	AB	n/a	n/a	VP2489

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA65220-27, FA65220-28, FA65220-29, FA65220-30, FA65220-31, FA65220-32, FA65220-33, FA65220-34, FA65220-35, FA65220-36, FA65220-37, FA65220-38

CAS No.	Compound	FA65220-36 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	5970		5000	10000	81	5000	10200	85	2	81-122/14
107-06-2	1,2-Dichloroethane	397		5000	5200	96	5000	5130	95	1	75-125/14
108-20-3	Di-Isopropyl Ether	ND		5000	4450	89	5000	4530	91	2	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		250000	185000	74	250000	191000	76	3	55-126/17
64-17-5	Ethyl Alcohol	ND		100000	84300	84	100000	86400	86	2	46-145/30
100-41-4	Ethylbenzene	848		5000	5450	92	5000	5530	94	1	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		5000	4330	87	5000	4370	87	1	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		5000	4530	91	5000	4700	94	4	72-117/14
91-20-3	Naphthalene	358	J	5000	5000	93	5000	5350	100	7	63-132/25
75-85-4	Tert-Amyl Alcohol	8800		50000	53100	89	50000	57300	97	8	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		5000	4580	92	5000	4690	94	2	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		50000	45500	91	50000	49500	99	8	63-129/27
762-75-4	Tert-Butyl Formate	ND		50000	23200	46	50000	23400	47	1	46-130/33
108-88-3	Toluene	154		5000	4710	91	5000	4930	96	5	80-120/14
1330-20-7	Xylene (total)	3320		15000	17700	96	15000	18000	98	2	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA65220-36	Limits
1868-53-7	Dibromofluoromethane	101%	101%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	106%	105%	79-125%
2037-26-5	Toluene-D8	100%	102%	97%	85-112%
460-00-4	4-Bromofluorobenzene	95%	97%	97%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA65191-46MS	C0133655.D	5	06/24/19	AJ	n/a	n/a	VC5314
FA65191-46MSD	C0133656.D	5	06/24/19	AJ	n/a	n/a	VC5314
FA65191-46 [a]	C0133649.D	5	06/24/19	AJ	n/a	n/a	VC5314

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA65220-34

CAS No.	Compound	FA65191-46 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
107-06-2	1,2-Dichloroethane	ND		125	119	95	125	121	97	2	75-125/14
75-85-4	Tert-Amyl Alcohol	ND		1250	1180	94	1250	1150	92	3	65-124/23

CAS No.	Surrogate Recoveries	MS	MSD	FA65191-46	Limits
1868-53-7	Dibromofluoromethane	101%	100%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	100%	98%	79-125%
2037-26-5	Toluene-D8	101%	100%	101%	85-112%
460-00-4	4-Bromofluorobenzene	100%	101%	99%	83-118%

(a) Confirmation run.

* = Outside of Control Limits.

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75483-MB	DD107122.D	1	06/17/19	NM	06/17/19	OP75483	GDD3084

The QC reported here applies to the following samples: **Method:** SW846 8011

FA65220-1, FA65220-2, FA65220-3, FA65220-4, FA65220-6, FA65220-7, FA65220-8, FA65220-9, FA65220-10, FA65220-11, FA65220-12, FA65220-13, FA65220-14, FA65220-15, FA65220-16, FA65220-17, FA65220-18, FA65220-19, FA65220-20, FA65220-21

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	106%	63-137%

Method Blank Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75506-MB	DD107177.D	1	06/18/19	NM	06/18/19	OP75506	GDD3085

The QC reported here applies to the following samples: **Method:** SW846 8011

FA65220-22, FA65220-23, FA65220-24, FA65220-25, FA65220-27, FA65220-28, FA65220-29, FA65220-30, FA65220-31, FA65220-32, FA65220-33, FA65220-34, FA65220-35, FA65220-36, FA65220-37, FA65220-38

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	63-137%

Method Blank Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75598-MB	DD107232.D	1	06/24/19	NM	06/24/19	OP75598	GDD3088

The QC reported here applies to the following samples: **Method:** SW846 8011

FA65220-26

CAS No.	Compound	Result	RL	MDL	Units	Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.010	ug/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	101%	63-137%

Blank Spike Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75483-BS	DD107120.D	1	06/17/19	NM	06/17/19	OP75483	GDD3084

The QC reported here applies to the following samples: **Method:** SW846 8011

FA65220-1, FA65220-2, FA65220-3, FA65220-4, FA65220-6, FA65220-7, FA65220-8, FA65220-9, FA65220-10, FA65220-11, FA65220-12, FA65220-13, FA65220-14, FA65220-15, FA65220-16, FA65220-17, FA65220-18, FA65220-19, FA65220-20, FA65220-21

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.29	116	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	103%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75483-BS2	DD107121.D	1	06/17/19	NM	06/17/19	OP75483	GDD3084

The QC reported here applies to the following samples: **Method:** SW846 8011

FA65220-1, FA65220-2, FA65220-3, FA65220-4, FA65220-6, FA65220-7, FA65220-8, FA65220-9, FA65220-10, FA65220-11, FA65220-12, FA65220-13, FA65220-14, FA65220-15, FA65220-16, FA65220-17, FA65220-18, FA65220-19, FA65220-20, FA65220-21

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.29	116	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	104%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75506-BS	DD107175.D	1	06/18/19	NM	06/18/19	OP75506	GDD3085

The QC reported here applies to the following samples: **Method:** SW846 8011

FA65220-22, FA65220-23, FA65220-24, FA65220-25, FA65220-27, FA65220-28, FA65220-29, FA65220-30, FA65220-31, FA65220-32, FA65220-33, FA65220-34, FA65220-35, FA65220-36, FA65220-37, FA65220-38

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.27	108	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	90%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75506-BS2	DD107176.D	1	06/18/19	NM	06/18/19	OP75506	GDD3085

The QC reported here applies to the following samples: **Method:** SW846 8011

FA65220-22, FA65220-23, FA65220-24, FA65220-25, FA65220-27, FA65220-28, FA65220-29, FA65220-30, FA65220-31, FA65220-32, FA65220-33, FA65220-34, FA65220-35, FA65220-36, FA65220-37, FA65220-38

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.29	116	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	103%	63-137%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75598-BS	DD107231.D	1	06/24/19	NM	06/24/19	OP75598	GDD3088

The QC reported here applies to the following samples: **Method:** SW846 8011

FA65220-26

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-93-4	1,2-Dibromoethane	0.25	0.25	100	72-134

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	101%	63-137%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75483-MS	DD107124.D	1	06/17/19	NM	06/17/19	OP75483	GDD3084
FA65220-1	DD107123.D	1	06/17/19	NM	06/17/19	OP75483	GDD3084

The QC reported here applies to the following samples: **Method:** SW846 8011

FA65220-1, FA65220-2, FA65220-3, FA65220-4, FA65220-6, FA65220-7, FA65220-8, FA65220-9, FA65220-10, FA65220-11, FA65220-12, FA65220-13, FA65220-14, FA65220-15, FA65220-16, FA65220-17, FA65220-18, FA65220-19, FA65220-20, FA65220-21

CAS No.	Compound	FA65220-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
106-93-4	1,2-Dibromoethane	ND		0.232	0.22	95	72-134

CAS No.	Surrogate Recoveries	MS	FA65220-1	Limits
460-00-4	4-Bromofluorobenzene	90%	115%	63-137%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75506-MS	DD107210.D	10	06/19/19	NM	06/18/19	OP75506	GDD3086
FA65220-22 [a]	DD107221.D	10	06/20/19	NM	06/18/19	OP75506	GDD3087

The QC reported here applies to the following samples: **Method:** SW846 8011

FA65220-22, FA65220-23, FA65220-24, FA65220-25, FA65220-27, FA65220-28, FA65220-29, FA65220-30, FA65220-31, FA65220-32, FA65220-33, FA65220-34, FA65220-35, FA65220-36, FA65220-37, FA65220-38

CAS No.	Compound	FA65220-22 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
106-93-4	1,2-Dibromoethane	4.4		0.231	4.4	0* [b]	72-134

CAS No.	Surrogate Recoveries	MS	FA65220-22	Limits
460-00-4	4-Bromofluorobenzene	0%* [c]	0%* [c]	63-137%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Outside control limits due to dilution.

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75483-DUP	DD107128.D	1	06/17/19	NM	06/17/19	OP75483	GDD3084
FA65220-2	DD107127.D	1	06/17/19	NM	06/17/19	OP75483	GDD3084

The QC reported here applies to the following samples: **Method:** SW846 8011

FA65220-1, FA65220-2, FA65220-3, FA65220-4, FA65220-6, FA65220-7, FA65220-8, FA65220-9, FA65220-10, FA65220-11, FA65220-12, FA65220-13, FA65220-14, FA65220-15, FA65220-16, FA65220-17, FA65220-18, FA65220-19, FA65220-20, FA65220-21

CAS No.	Compound	FA65220-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
106-93-4	1,2-Dibromoethane	ND		ND		nc	28

CAS No.	Surrogate Recoveries	DUP	FA65220-2	Limits
460-00-4	4-Bromofluorobenzene	89%	90%	63-137%

* = Outside of Control Limits.

Duplicate Summary

Job Number: FA65220
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP75506-DUP	DD107181.D	1	06/18/19	NM	06/18/19	OP75506	GDD3085
FA65220-23	DD107180.D	1	06/18/19	NM	06/18/19	OP75506	GDD3085

The QC reported here applies to the following samples: **Method:** SW846 8011

FA65220-22, FA65220-23, FA65220-24, FA65220-25, FA65220-27, FA65220-28, FA65220-29, FA65220-30, FA65220-31, FA65220-32, FA65220-33, FA65220-34, FA65220-35, FA65220-36, FA65220-37, FA65220-38

CAS No.	Compound	FA65220-23 ug/l	Q	DUP ug/l	Q	RPD	Limits
106-93-4	1,2-Dibromoethane	ND		ND		nc	28

CAS No.	Surrogate Recoveries	DUP	FA65220-23	Limits
460-00-4	4-Bromofluorobenzene	66%	76%	63-137%

* = Outside of Control Limits.

APPENDIX C

Field Data Information Sheets

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Monitoring Well Gauging

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop
County: EdgeField	Project Manager: Steven Martin	Field Personnel: Justin [illegible] Alex Lin

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
MW-1	30.16	Unknown	—	15.08	—	No	No	Yes	Yes	NO
MW-2	43.77	Unknown	—	20.53	—	No	No	No	1/2	No
MW-3	40.45	10 to 40	—	21.32	—	No	No	Yes	Yes	NO
MW-4	40.23	10 to 40	—	19.63	—	No	No	Yes	Yes	Yes
MW-5	42.76	20 to 40	—	22.89	—	No	No	Yes	Yes	Yes
MW-6	35.58	20 to 35	—	20.10	—	No	No	Yes	1/2	Yes
MW-7	35.48	20to35	—	20.63	—	No	No	Yes	Yes	No
MW-8	35.62	20 to 35	—	18.28	—	No	No	Yes	Yes	Yes
MW-9	35.59	20 to 35	—	17.02	—	No	No	Yes	Yes	NO
MW-10	40.71	25 to 40	—	20.24	—	No	No	Yes	Yes	NO
MW-11	35.83	20 to 35	—	21.65	—	No	No	Yes	1/2	NO
MW-12	35.46	20 to 35	—	24.12	—	No	No	Yes	Yes	Yes
MW-13	40.98	25 to 40	—	25.71	—	No	No	Yes	Yes	Yes

Notes:

Signature: [illegible]

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Monitoring Well Gauging

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop
County: Edgefield	Project Manager: Steven Martin	Field Personnel: Justin [illegible] Alex Lin

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
MW-14	—									
MW-15	—						No	—		
MW-16	—						No			
MW-17	35.48	20 to 35	—	13.82	—		No			
MW-18	—					No	No	Yes	Yes	No
MW-19	39.03	24-39	—	20.67			No			
MW-20	45.94	30 to 45	—	28.93	—	No	No	Yes	Yes	No
MW-21	40.82	25 to 40	—	18.49	—	No	No	Yes	Yes	No
MW-22	40.69	25 to 40	—	27.51	—	No	No	Yes	Yes	Yes
MW-23	37.38	22 to 37	—	18.34	—	No	No	Yes	Yes	No
MW-24	—					No	No	Yes	Yes	No
MW-25	40.61	25 to 40	—	20.93	—		No			
MW-26	—					No	No	Yes	Yes	No
							No			

Notes: MW's 14, 15, 16, 18, 24, and 26 were not found

Signature: [illegible]

DHEC 0424 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Underground Storage Tank Management Division
Field Data Information Sheet – Monitoring Well Gauging

Date: 5/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	
County: Edgefield	Project Manager: Steven Martin	Field Personnel: Justin [illegible] Alex Lin	

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
MW-27	35.59	20 to 35	—	19.22	—	No	No	Yes	Yes	Yes
MW-28	40.54	25 to 40	—	17.42	—	No	No	Yes	Yes	Yes
MW-29	40.81	25 to 40	—	20.21	—	No	No	No	2/2	Yes
MW-30	45.78	30 to 45	—	26.57	—	No	No	Yes	Yes	No
MW-31	—	—				—	No	—	—	—
TW-1	64.44	58 to 63	—	21.31	—	No	No	Yes	Yes	No
TW-2	78.26	75 to 80	—	19.22	—	No	No	Yes	Yes	No
TW-3	82.03	75-80	—	16.53	—	No	No	Yes	Yes	No
TW-4	69.38	64 to 69	—	18.74	—	No	No	Yes	Yes	No
TW-5	59.23	54-59	—	24.69	—	No	No	Yes	Yes	No
TW-6	—	—				—	No	—	—	—
TW-7	59.66	54 to 59	—	12.83	—	No	No	Yes	Yes	No
TW-8	59.34	54-59	—	17.78	—	No	No	Yes	Yes	No

Notes: MW-31 and TW-6 were not found

Signature: [signature]

DHEC 0424 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Monitoring Well Gauging

Date: 6/13/19	Site ID #: 07960		Site Name: 378 Truck Stop
County: Edgefield	Project Manager: Steven Martin		Field Personnel: Justin [illegible] Alex Lin

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
TW-9	—	—					NO			
TW-10	65.68	60 to 65	~	61.58	—	No	Yes	Yes	Yes	Yes
TW-11	60.24	55 to 60	—	12.72	—	No	Yes	Yes	Yes	NO

Notes: TW-9 was not found

Signature: [signature]

DHEC 0424 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alek Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (ºF):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A101835	pH 4.0: ~~Y~~ or N	pH 7.0: ~~Y~~ or N	pH 10.0: ~~Y~~ or N	S.C.: ~~Y~~ or N
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A101835	~~Y~~ or N			
[redacted] (Turbidity) YSI Pro DSS	19A101835	0.0 NTU: ~~Y~~ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 1

Well Diameter (ft.): 2"

Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652

Method of Purging/Sample Collection: X Bailer ____Pump

X MW ___IW ___RW ___Other__________

___Private WSW ___Public WSW

Screened Interval (ft.): to unknown

Total Well Depth (TWD) (ft.): 30.11

Depth to Free Product (DFP) (ft.): —

Depth to Groundwater (DGW) (ft.): ~~15.08~~ 15.58

Free Product Thickness (ft.): —

Length of water column (LWC=TWD-DGW)(ft.): ~~15.08~~ 28.62

1 casing volume (CV=LWC*C)(gals): ~~2.41~~ 4.57

3 casing volumes 3*CV)(gals): ~~7.23~~ 13.73

5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	~~2.50~~ 4.5	~~5~~ 9	13.75 ~~7.25~~				
Time (military)	1924	1930	1936					
PH (s.u.)	6.31	5.96	5.95					
Specific Conductivity (µS/cm)	81.8	113.6	74.3					
Water Temperature (ºC)	19.8	19.4	19.5					
Turbidity (NTU)	7.96	60.97	1000+					
Dissolved Oxygen (mg/L)	4.44	4.15	2.06					

Sampling Data

Sampled By: Justin Armentrout

Sampling Time: 1936

Duplicate: Y or ~~N~~

If yes, Duplicate Time:

Notes: Dry @ 9

Signature: Justin Armentrout

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19 | Site ID #: 07960 | Site Name: 378 Truck Stop | Field Personnel: Justin Armentrout, Alex Lin

County: Edgefield | Project Manager: Steven Martin | General Weather Conditions: Cloudy w/ Sun | Ambient Air Temp (°F): ~72°F

Quality Assurance

Meter Name	Serial #:	Calibration:			
Aquameter AM-200	134080427				
~~YSI 63~~ (pH, Specific Conductivity, Temperature) Aquaprobe AP-2000-D	103790420	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) Aquaprobe AP-2000-D	103790420	Y or N			
~~LaMotte~~ (Turbidity) Aquaprobe AP-2000-D	103790420	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-2

Well Diameter (ft.): 2"

Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652

Method of Purging/Sample Collection: X Bailer ___Pump

X MW ___IW ___RW ___Other________ ___Private WSW ___Public WSW

Screened Interval (ft.): to unknown

Total Well Depth (TWD) (ft.): 43.77

Depth to Free Product (DFP) (ft.): —

Depth to Groundwater (DGW) (ft.): 20.53

Free Product Thickness (ft.): —

Length of water column (LWC=TWD-DGW)(ft.): 23.24

1 casing volume (CV=LWC*C)(gals): 3.7184

3 casing volumes 3*CV)(gals): 11.1552

5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	3.75	7.5	11.25				
Time (military)	1931	1935	1940	1945				
PH (s.u.)	6.44	6.19	6.32	6.33				
Specific Conductivity (µS/cm)	101	121	147	148				
Water Temperature (°C)	21.00	20.90	20.83	20.40				
Turbidity ~~(NTU)~~ (mg/L)	66	78	95	96				
Dissolved Oxygen (mg/L)	6.06	3.16	1.91	2.69				

Sampling Data

Sampled By: Alex Lin | Sampling Time: 1945 | Duplicate: Y or N | If yes, Duplicate Time:

Notes:

Signature: [signature]

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (ºF):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A101835	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A10 1835	Y or N			
[redacted] (Turbidity) YSI Pro DSS	19A10 1835	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW3	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other_______ ___Private WSW ___Public WSW		Screened Interval (ft.): 10 to 40	Total Well Depth (TWD) (ft.): 40.45
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 21.32		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 19.13	1 casing volume (CV=LWC*C)(gals): 3.06	3 casing volumes 3*CV)(gals): 9.18	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3	6	9.25				
Time (military)	1944	1949	1956	2008				
PH (s.u.)	6.10	6.05	6.09	6.14				
Specific Conductivity (µS/cm)	370.3	384.4	478.9	509				
Water Temperature (ºC)	20.4	20.0	20.0	20.0				
Turbidity (NTU)	15.62	134.44	226.40	258.03				
Dissolved Oxygen (mg/L)	1.76	1.42	1.34	1.84				

Sampling Data

Sampled By: Justin Armentrout	Sampling Time: 2008	Duplicate: Y or N	If yes, Duplicate Time: 2030

Notes: ____

Signature: Just Arment

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions: Cloudy w/ Sun	Ambient Air Temp (°F): ~72°F

Quality Assurance

Meter Name: Aquameter AM-200	Serial #: 134080427	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) Aquaprobe AP-2000-D	103790420	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) Aquaprobe AP-2000-D	103790420	Y or N			
~~LaMotte~~ (Turbidity) Aquaprobe AP-2000-D	103790420	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-4	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 10 to 40	Total Well Depth (TWD) (ft.): 40.23
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 19.63		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 20.6	1 casing volume (CV=LWC*C)(gals): 3.29	3 casing volumes 3*CV)(gals): 9.88	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	3.25	6.5	10				
Time (military)	1845	1850	1855	1900				
PH (s.u.)	6.15	6.11	6.15	6.14				
Specific Conductivity (µS/cm)	182	191	183	186				
Water Temperature (°C)	23.00	21.20	21.20	21.10				
Turbidity (~~NTU~~) (mg/L)	119	124	118	120				
Dissolved Oxygen (mg/L)	5.41	5.03	4.23	4.40				

Sampling Data

Sampled By: Alex Lin	Sampling Time: 1900	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ____________________

Signature: [signature]

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19 | Site ID #: 07960 | Site Name: 378 Truck Stop | Field Personnel: Justin Armentrout, Alex Lin

County: Edgefield | Project Manager: Steven Martin | General Weather Conditions: Cloudy w/ Sun | Ambient Air Temp (ºF): ~72º F

Quality Assurance

Meter Name: Aquameter AM-200 | Serial #: 134080427 | Calibration:

~~YSI 63~~ (pH, Specific Conductivity, Temperature) Aquaprobe AP-2000-D | 103790420 | pH 4.0: Y or N (Y circled) | pH 7.0: Y or N (Y circled) | pH 10.0: Y or N (Y circled) | S.C.: Y or N (Y circled)

~~YSI 55~~ (Dissolved Oxygen) Aquaprobe AP-2000-D | 103790420 | Y or N (Y circled)

~~LaMotte~~ (Turbidity) Aquaprobe AP-2000-D | 103790420 | 0.0 NTU: Y or N (N circled) | 1.0 NTU: Y or N (N circled) | 10.0 NTU: Y or N (N circled)

Well Information

Well ID: MW-5 | Well Diameter (ft.): 2" | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: X Bailer ___ Pump

X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | Screened Interval (ft.): 20 to 40 | Total Well Depth (TWD) (ft.): 42.76

Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 22.89 | Free Product Thickness (ft.): —

Length of water column (LWC=TWD-DGW)(ft.): 19.87 | 1 casing volume (CV=LWC*C)(gals): 3.1792 | 3 casing volumes 3*CV)(gals): 9.5376 | 5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	3.25	6.5	9.5				
Time (military)	0836	0840	0843	0847				
PH (s.u.)	6.09	6.18	6.02	6.07				
Specific Conductivity (µS/cm)	312	226	306	318				
Water Temperature (ºC)	18.40	18.70	18.30	18.30				
Turbidity ~~(NTU)~~ (mg/L)	202	148	198	206				
Dissolved Oxygen (mg/L)	6.63	6.22	6.20	6.09				

Sampling Data

Sampled By: Alex Lin | Sampling Time: 0845 | Duplicate: Y or N (N circled) | If yes, Duplicate Time:

Notes:

Signature: [signature]

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19 | Site ID #: 07960 | Site Name: 378 Truck Stop | Field Personnel: Justin Armentrout, Alex Lin

County: Edgefield | Project Manager: Steven Martin | General Weather Conditions: Cloudy w/ Sun | Ambient Air Temp (°F): ~72°F

Quality Assurance

Meter Name	Serial #:	Calibration:			
Aquameter AM-200	134080427				
~~YSI 63~~ (pH, Specific Conductivity, Temperature) Aquaprobe AP-2000-D	103790420	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) Aquaprobe AP-2000-D	103790420	Y or N			
~~LaMotte~~ (Turbidity) Aquaprobe AP-2000-D	103790420	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-6 | Well Diameter (ft.): 2" | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: X Bailer ____Pump

X MW ___IW ___RW ___Other________ ___Private WSW ___Public WSW | Screened Interval (ft.): 20 to 35 | Total Well Depth (TWD) (ft.): 35.58

Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 20.10 | Free Product Thickness (ft.): —

Length of water column (LWC=TWD-DGW)(ft.): 15.48 | 1 casing volume (CV=LWC*C)(gals): 2.4768 | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.5	5.0	7.5				
Time (military)	1006	1011	1015					
PH (s.u.)	6.21	6.18	6.05					
Specific Conductivity (µS/cm)	68	71	64					
Water Temperature (°C)	20.05	19.25	18.90					
Turbidity ~~(NTU)~~ (mg/L)	44	46	41					
Dissolved Oxygen (mg/L)	7.71	7.78	6.50					

Sampling Data

Sampled By: Alex Lin | Sampling Time: 1015 | Duplicate: Y or N | If yes, Duplicate Time:

Notes: Dry at 7.0 gals

Signature: [signature]

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A101835	pH 4.0: Y or N (Y marked)	pH 7.0: Y or N (Y marked)	pH 10.0: Y or N (Y marked)	S.C.: Y or N (Y marked)
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A10 1835	Y or N (Y marked)			
[redacted] (Turbidity) YSI Pro DSS	19A10 1835	0.0 NTU: Y or N (Y marked)	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 7	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other________ ___Private WSW ___Public WSW	Screened Interval (ft.): 20 to 35		Total Well Depth (TWD) (ft.): 35.48
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 20.63		Free Product Thickness (ft.):
Length of water column (LWC=TWD-DGW)(ft.): 14.85	1 casing volume (CV=LWC*C)(gals): 2.37	3 casing volumes 3*CV)(gals): 7.12	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	2.50	5	7				
Time (military)	2019	2024	2030	2035				
PH (s.u.)	5.87	5.88	5.96	5.91				
Specific Conductivity (µS/cm)	168.4	187.7	168.9	78.0				
Water Temperature (°C)	20.3	19.8	19.9	19.8				
Turbidity (NTU)	1.48	483.17	781.90	1000+				
Dissolved Oxygen (mg/L)	1.36	1.65	2.26	2.27				

Sampling Data

Sampled By: Justin Armentrout	Sampling Time: 2035	Duplicate: Y or N (N circled)	If yes, Duplicate Time:

Notes:

Signature: Just Armentrout

DHEC 0423 (10/2015)

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions: Cloudy w/ Sun	Ambient Air Temp (ºF): ~72º F

Quality Assurance

Meter Name Aquameter AM-200	Serial #: 134080427	Calibration:
~~YSI 63~~ (pH, Specific Conductivity, Temperature) Aquaprobe AP-2000-D	103790420	pH 4.0: Y or N — pH 7.0: Y or N — pH 10.0: Y or N — S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) Aquaprobe AP-2000-D	103790420	Y or N
~~LaMotte~~ (Turbidity) Aquaprobe AP-2000-D	103790420	0.0 NTU: Y or N — 1.0 NTU: Y or N — 10.0 NTU: Y or N

Well Information

Well ID: MW-8	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35.62
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 18.28		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 17.34	1 casing volume (CV=LWC*C)(gals): 2.77	3 casing volumes 3*CV)(gals): 8.32	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.75	5.50	8.50				
Time (military)	1110	1115	1120					
PH (s.u.)	6.03	5.97	5.91					
Specific Conductivity (µS/cm)	155	190	200					
Water Temperature (ºC)	23.95	22.65	21.80					
Turbidity ~~(NTU)~~ (mg/L)	100	124	130					
Dissolved Oxygen (mg/L)	6.16	5.50	4.39					

Sampling Data

Sampled By: Alex Lin	Sampling Time: 1120	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry at 6.25 gal

Signature: [signature]

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (ºF):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A101835	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A101835	Y or N			
[redacted] (Turbidity) YSI Pro DSS	19A101835	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 9

Well Diameter (ft.): 2"

Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652

Method of Purging/Sample Collection: X Bailer ___Pump

X MW ___IW ___RW ___Other_______________

___Private WSW ___Public WSW

Screened Interval (ft.): 20 to 35

Total Well Depth (TWD) (ft.): 36.59

Depth to Free Product (DFP) (ft.): —

Depth to Groundwater (DGW) (ft.): 17.02

Free Product Thickness (ft.): —

Length of water column (LWC=TWD-DGW)(ft.): 19.57

1 casing volume (CV=LWC*C)(gals): 2.9712

3 casing volumes 3*CV)(gals): 8.9136

5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.0	6.0	9.0				
Time (military)	1515	1520	1526	1534				
PH (s.u.)	6.33	6.35	6.38	6.21				
Specific Conductivity (µS/cm)	826	9.26	853	824				
Water Temperature (ºC)	24.8	22.9	22.3	23.8				
Turbidity (NTU)	3.49	330.79	496.57	516.17				
Dissolved Oxygen (mg/L)	5.57	6.07	6.53	4.96				

Sampling Data

Sampled By: Justin Armentrout

Sampling Time: ~~1533~~ 1534

Duplicate: ~~Y~~ or N

If yes, Duplicate Time:

Notes: _______________

Signature: Justin Armentrout

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A101835	pH 4.0: ~~Y~~ or N	pH 7.0: ~~Y~~ or N	pH 10.0: ~~Y~~ or N	S.C.: ~~Y~~ or N
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A10 1835	~~Y~~ or N			
[redacted] (Turbidity) YSI Pro DSS	19A10 1835	0.0 NTU: ~~Y~~ or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 10	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other________ ___Private WSW ___Public WSW		Screened Interval (ft.): 25 to 40	Total Well Depth (TWD) (ft.): 40.71
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 20.24		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 20.47	1 casing volume (CV=LWC*C)(gals): 3.2752	3 casing volumes 3*CV)(gals): 9.8256	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.25	6.5	~~9~~ 10.0				
Time (military)	1433	1439	1446	1453				
PH (s.u.)	6.89	6.57	6.57	6.61				
Specific Conductivity (µS/cm)	299.5	208.4	218.7	258.6				
Water Temperature (°C)	25.2	21.8	21.0	22.3				
Turbidity (NTU)	6.74	330.26	744.39	609.24				
Dissolved Oxygen (mg/L)	7.77	7.65	7.19	6.34				

Sampling Data

Sampled By: Justin Armentrout	Sampling Time: 1453	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ____________________

Signature: Justin Armentrout

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19 | Site ID #: 07960 | Site Name: 378 Truck Stop | Field Personnel: Justin Armentrout, Alex Lin

County: Edgefield | Project Manager: Steven Martin | General Weather Conditions: Cloudy w/ Sun | Ambient Air Temp (°F): ~72°F

Quality Assurance

Meter Name: Aquameter AM-200 | Serial #: 134080427 | Calibration:

~~YSI 63~~ (pH, Specific Conductivity, Temperature) Aquaprobe AP-2000-D | 103790420 | pH 4.0: Y or N (Y circled) | pH 7.0: Y or N (Y circled) | pH 10.0: Y or N (Y circled) | S.C.: Y or N (Y circled)

~~YSI 55~~ (Dissolved Oxygen) Aquaprobe AP-2000-D | 103790420 | Y or N (Y circled)

~~LaMotte~~ (Turbidity) Aquaprobe AP-2000-D | 103790420 | 0.0 NTU: Y or N (N circled) | 1.0 NTU: Y or N (N circled) | 10.0 NTU: Y or N (N circled)

Well Information

Well ID: MW-11 | Well Diameter (ft.): 2" | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: X Bailer ___ Pump

X MW ___IW ___RW ___Other________ ___Private WSW ___Public WSW | Screened Interval (ft.): 20 to 35 | Total Well Depth (TWD) (ft.): 35.83

Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 21.63 | Free Product Thickness (ft.): —

Length of water column (LWC=TWD-DGW)(ft.): 14.2 | 1 casing volume (CV=LWC*C)(gals): 2.272 | 3 casing volumes 3*CV)(gals): 6.816 | 5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.25	4.5	7.0				
Time (military)	1455	1500	1505	1510				
PH (s.u.)	6.31	6.35	6.42	6.41				
Specific Conductivity (µS/cm)	343	372	382	354				
Water Temperature (°C)	24.05	21.52	21.80	21.65				
Turbidity (~~NTU~~) (mg/L)	225	241	248	230				
Dissolved Oxygen (mg/L)	5.11	4.60	4.42	3.97				

Sampling Data

Sampled By: Alex Lin | Sampling Time: 1510 | Duplicate: Y or N (N circled) | If yes, Duplicate Time:

Notes:

Signature: [signature]

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19 | Site ID #: 07960 | Site Name: 378 Truck Stop | Field Personnel: Justin Armentrout, Alex Lin

County: Edgefield | Project Manager: Steven Martin | General Weather Conditions: Cloudy w/ Sun | Ambient Air Temp (°F): ~72°F

Quality Assurance

Meter Name	Serial #:	Calibration:			
Aquameter AM-200	134080427				
~~YSI 63~~ (pH, Specific Conductivity, Temperature) Aquaprobe AP-2000-D	103790420	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) Aquaprobe AP-2000-D	103790420	Y or N			
~~LaMotte~~ (Turbidity) Aquaprobe AP-2000-D	103790420	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-12 | Well Diameter (ft.): 2" | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: X Bailer ___ Pump

X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW | Screened Interval (ft.): 20 to 35 | Total Well Depth (TWD) (ft.): 35.46

Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 24.12 | Free Product Thickness (ft.): —

Length of water column (LWC=TWD-DGW)(ft.): 11.34 | 1 casing volume (CV=LWC*C)(gals): 1.8144 | 3 casing volumes 3*CV)(gals): 5.4432 | 5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.0	3.75	5.5				
Time (military)	1621	1625	1630	1635				
PH (s.u.)	6.28	6.48	6.34	6.41				
Specific Conductivity (µS/cm)	356	383	390	392				
Water Temperature (°C)	23.10	21.60	21.30	21.20				
Turbidity ~~(NTU)~~ (mg/L)	234	247	254	256				
Dissolved Oxygen (mg/L)	4.55	3.90	3.54	4.52				

Sampling Data

Sampled By: Alex Lin | Sampling Time: 1635 | Duplicate: Y or N | If yes, Duplicate Time:

Notes:

Signature: [signature]

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions: Cloudy w/ Sun	Ambient Air Temp (°F): ~72°F

Quality Assurance

Meter Name	Serial #:	Calibration:			
Aquameter AM-200	134080427				
~~YSI 63~~ (pH, Specific Conductivity, Temperature) Aquaprobe AP-2000-D	103790420	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) Aquaprobe AP-2000-D	103790420	Y or N			
~~LaMotte~~ (Turbidity) Aquaprobe AP-2000-D	103790420	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-13

X MW ___IW ___RW ___Other________ ___Private WSW ___Public WSW

Well Diameter (ft.): 2"

Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652

Method of Purging/Sample Collection: X Bailer ____Pump

Screened Interval (ft.): 25 to 40

Total Well Depth (TWD) (ft.): 40.88

Depth to Free Product (DFP) (ft.): —

Depth to Groundwater (DGW) (ft.): 25.71

Free Product Thickness (ft.): —

Length of water column (LWC=TWD-DGW)(ft.): 15.17

1 casing volume (CV=LWC*C)(gals): 2.4272

3 casing volumes 3*CV)(gals): 7.2816

5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.5	5.0	7.25				
Time (military)	1756	1800	1805	1810				
PH (s.u.)	6.54	6.40	6.36	6.40				
Specific Conductivity (µS/cm)	144	313	426	431				
Water Temperature (°C)	22.80	20.95	20.80	20.80				
Turbidity ~~(NTU)~~ (mg/L)	92	204	276	279				
Dissolved Oxygen (mg/L)	5.95	5.71	4.58	4.21				

Sampling Data

Sampled By: Alex Lin | Sampling Time: 1810 | Duplicate: Y or N | If yes, Duplicate Time: 2105

Notes:

Signature: [signature]

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (ºF):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A101835	pH 4.0: Y or N (Y marked)	pH 7.0: Y or N (Y marked)	pH 10.0: Y or N (Y marked)	S.C.: Y or N (Y marked)
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A10 1835	Y or N (Y marked)			
[redacted] (Turbidity) YSI Pro DSS	19A10 1835	0.0 NTU: Y or N (Y marked)	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 17	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ____Pump
X MW ___IW ___RW ___Other________ ___Private WSW ___Public WSW	Screened Interval (ft.): 20 to 35		Total Well Depth (TWD) (ft.): 35.48
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 13.82		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 21.66	1 casing volume (CV=LWC*C)(gals): 3.4656	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.5	7.0	10.5				
Time (military)	1604	1610	1616	1621				
PH (s.u.)	6.22	6.06	6.03	5.95				
Specific Conductivity (µS/cm)	187.4	245.0	247.9	230.1				
Water Temperature (ºC)	24.8	23.1	22.0	22.8				
Turbidity (NTU)	4.18	460.23	452.77	471.64				
Dissolved Oxygen (mg/L)	5.22	5.64	5.40	4.38				

Sampling Data

Sampled By: Justin Armentrout	Sampling Time: 1621	Duplicate: Y or N (N circled)	If yes, Duplicate Time:

Notes:

Signature: Justin Armentrout

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (ºF):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A101835	pH 4.0: X or N	pH 7.0: X or N	pH 10.0: X or N	S.C.: X or N
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A101835	X or N			
[redacted] (Turbidity) YSI Pro DSS	19A101835	0.0 NTU: X or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 19	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 24 to 39	Total Well Depth (TWD) (ft.): 39.03
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 20.67		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 18.36	1 casing volume (CV=LWC*C)(gals): 2.9376	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.0	6.0	9.0				
Time (military)	1722	1728	1736	1743				
PH (s.u.)	5.54	5.50	5.44	5.41				
Specific Conductivity (µS/cm)	165.3	154.9	156.0	152.0				
Water Temperature (ºC)	21.3	20.1	19.6	20.6				
Turbidity (NTU)	9.02	599.32	404.39	813.18				
Dissolved Oxygen (mg/L)	5.13	4.42	4.79	4.15				

Sampling Data

Sampled By: Justin Armentrout	Sampling Time: 1743	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature:

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19 | Site ID #: 07960 | Site Name: 378 Truck Stop | Field Personnel: Justin Armentrout, Alex Lin

County: Edgefield | Project Manager: Steven Martin | General Weather Conditions: Cloudy w/ Sun | Ambient Air Temp (°F): ~72°F

Quality Assurance

Meter Name	Serial #:	Calibration:			
Aquameter AM-200	134080427				
~~YSI 63~~ (pH, Specific Conductivity, Temperature) Aquaprobe AP-2000-D	103790420	pH 4.0: Y or N (Y)	pH 7.0: Y or N (Y)	pH 10.0: Y or N (Y)	S.C.: Y or N (Y)
~~YSI 55~~ (Dissolved Oxygen) Aquaprobe AP-2000-D	103790420	Y or N (Y)			
~~LaMotte~~ (Turbidity) Aquaprobe AP-2000-D	103790420	0.0 NTU: Y or N (N)	1.0 NTU: Y or N (N)	10.0 NTU: Y or N (N)	

Well Information

Well ID: MW-20 | Well Diameter (ft.): 2" | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: X Bailer ___Pump

X MW ___IW ___RW ___Other________ ___Private WSW ___Public WSW | Screened Interval (ft.): 30 to 45 | Total Well Depth (TWD) (ft.): 45.54

Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 28.93 | Free Product Thickness (ft.): —

Length of water column (LWC=TWD-DGW)(ft.): 16.61 | 1 casing volume (CV=LWC*C)(gals): 2.65 | 3 casing volumes 3*CV)(gals): 7.97 | 5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.50	5.0	8.0				
Time (military)	0918	0921	0924					
PH (s.u.)	6.40	6.39	6.39					
Specific Conductivity (µS/cm)	160	158	160					
Water Temperature (°C)	18.35	18.00	17.80					
Turbidity (~~NTU~~) (mg/L)	104	102	103					
Dissolved Oxygen (mg/L)	8.09	8.32	8.05					

Sampling Data

Sampled By: Alex Lin | Sampling Time: 0925 | Duplicate: Y or N (N) | If yes, Duplicate Time:

Notes: Dry at 7.0 gal

Signature: [signature]

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SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19 | Site ID #: 07960 | Site Name: 378 Truck Stop | Field Personnel: Justin Armentrout, Alex Lin

County: Edgefield | Project Manager: Steven Martin | General Weather Conditions: Cloudy w/ Sun | Ambient Air Temp (ºF): ~72°F

Quality Assurance

Meter Name: Aquameter AM-200 | Serial #: 134080427 | Calibration:

~~YSI 63~~ (pH, Specific Conductivity, Temperature) Aquaprobe AP-2000-D | 103790420 | pH 4.0: Y or N | pH 7.0: Y or N | pH 10.0: Y or N | S.C.: Y or N

~~YSI 55~~ (Dissolved Oxygen) Aquaprobe AP-2000-D | 103790420 | Y or N

~~LaMotte~~ (Turbidity) Aquaprobe AP-2000-D | 103790420 | 0.0 NTU: Y or N | 1.0 NTU: Y or N | 10.0 NTU: Y or N

Well Information

Well ID: MW-21 | Well Diameter (ft.): 2" | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: X Bailer ___Pump

X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW | Screened Interval (ft.): 25 to 40 | Total Well Depth (TWD) (ft.): 40.82

Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 18.49 | Free Product Thickness (ft.): —

Length of water column (LWC=TWD-DGW)(ft.): 22.33 | 1 casing volume (CV=LWC*C)(gals): 3.57 | 3 casing volumes 3*CV)(gals): 10.71 | 5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	3.50	7.0	10.75				
Time (military)	1040	1045	1050					
PH (s.u.)	6.23	6.09	6.13					
Specific Conductivity (µS/cm)	192	228	220					
Water Temperature (ºC)	21.00	20.40	20.10					
Turbidity (NTU)	124	148	143					
Dissolved Oxygen (mg/L)	6.11	5.08	5.04					

Sampling Data

Sampled By: Alex Lin | Sampling Time: 1050 | Duplicate: Y or N | If yes, Duplicate Time:

Notes: Dry at 7.25 gal

Signature: [signature]

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19 | Site ID #: 07960 | Site Name: 378 Truck Stop | Field Personnel: Justin Armentrout, Alex Lin

County: Edgefield | Project Manager: Steven Martin | General Weather Conditions: Cloudy w/ Sun | Ambient Air Temp (°F): ~72°F

Quality Assurance

Meter Name: Aquameter AM-200 | Serial #: 134080427 | Calibration:

~~YSI 63~~ (pH, Specific Conductivity, Temperature) Aquaprobe AP-2000-D | 103790420 | pH 4.0: Y or N | pH 7.0: Y or N | pH 10.0: Y or N | S.C.: Y or N

~~YSI 55~~ (Dissolved Oxygen) Aquaprobe AP-2000-D | 103790420 | Y or N

~~LaMotte~~ (Turbidity) Aquaprobe AP-2000-D | 103790420 | 0.0 NTU: Y or N | 1.0 NTU: Y or N | 10.0 NTU: Y or N

Well Information

Well ID: MW-22 | Well Diameter (ft.): 2" | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: X Bailer ___Pump

X MW ___IW ___RW ___Other___________ ___Private WSW ___Public WSW | Screened Interval (ft.): 25 to 40 | Total Well Depth (TWD) (ft.): 40.69

Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 27.51 | Free Product Thickness (ft.): —

Length of water column (LWC=TWD-DGW)(ft.): 13.18 | 1 casing volume (CV=LWC*C)(gals): 2.1088 | 3 casing volumes 3*CV)(gals): 6.3264 | 5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.25	4.25	6.5				
Time (military)	1701	1705	1710	1715				
PH (s.u.)	6.49	6.30	6.33	6.26				
Specific Conductivity (µS/cm)	144	178	146	192				
Water Temperature (°C)	20.65	20.88	19.80	19.60				
Turbidity (~~NTU~~) (mg/L)	92	114	95	124				
Dissolved Oxygen (mg/L)	4.88	4.61	4.57	5.10				

Sampling Data

Sampled By: Alex Lin | Sampling Time: 1715 | Duplicate: Y or N | If yes, Duplicate Time: 2100

Notes:

Signature: [signature]

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (ºF):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A101835	pH 4.0: X or N	pH 7.0: X or N	pH 10.0: X or N	S.C.: X or N
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A101835	X or N			
[redacted] (Turbidity) YSI Pro DSS	19A101835	0.0 NTU: X or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 23

Well Diameter (ft.): 2"

Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652

Method of Purging/Sample Collection: X Bailer ____Pump

X MW ___IW ___RW ___Other________ ___Private WSW ___Public WSW

Screened Interval (ft.): 22 to 37

Total Well Depth (TWD) (ft.): 37.38

Depth to Free Product (DFP) (ft.): —

Depth to Groundwater (DGW) (ft.): 18.39

Free Product Thickness (ft.): —

Length of water column (LWC=TWD-DGW)(ft.): 18.99

1 casing volume (CV=LWC*C)(gals): 3.0384

3 casing volumes 3*CV)(gals): 9.1152

5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.0	6.0	9.25				
Time (military)	1757	1804	1810	1816				
PH (s.u.)	6.31	6.11	6.07	5.99				
Specific Conductivity (μS/cm)	151.5	144.0	146.1	145.4				
Water Temperature (ºC)	22.2	21.4	21.0	22.3				
Turbidity (NTU)	3.94	449.59	762.25	755.29				
Dissolved Oxygen (mg/L)	7.2	7.37	5.58	5.66				

Sampling Data

Sampled By: Justin Armentrout | Sampling Time: 1621 | Duplicate: Y or N | If yes, Duplicate Time:

Notes:

Signature: [signature]

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (ºF):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A10 1835	pH 4.0: X or N	pH 7.0: X or N	pH 10.0: X or N	S.C.: X or N
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A10 1835	X or N			
[redacted] (Turbidity) YSI Pro DSS	19A10 1835	0.0 NTU: X or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW 25	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other_______ ___Private WSW ___Public WSW	Screened Interval (ft.): 25 to 40		Total Well Depth (TWD) (ft.): 40.61
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 20.93		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 19.68	1 casing volume (CV=LWC*C)(gals): 3.1488	3 casing volumes 3*CV)(gals): 9.4464	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.25	6.5	9.5				
Time (military)	1646	1650	1658	1704				
PH (s.u.)	6.83	6.64	6.58	6.59				
Specific Conductivity (µS/cm)	56.8	91.1	123.9	116.6				
Water Temperature (ºC)	23.7	22.6	21.6	24.0				
Turbidity (NTU)	5.24	476.80	506.68	320.54				
Dissolved Oxygen (mg/L)	4.68	4.72	4.41	3.19				

Sampling Data

Sampled By: Justin Armentrout	Sampling Time: 1704	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: Justin Armentrout

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions: Cloudy w/ Sun	Ambient Air Temp (ºF): ~72°F

Quality Assurance

Meter Name	Serial #:	Calibration:			
Aquameter AM-200	134080427				
~~YSI 63~~ (pH, Specific Conductivity, Temperature) Aquaprobe AP-2000-D	103790420	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) Aquaprobe AP-2000-D	103790420	Y or N			
~~LaMotte~~ (Turbidity) Aquaprobe AP-2000-D	103790420	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-27	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35.59
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 18.22		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 17.37	1 casing volume (CV=LWC*C)(gals): 2.7792	3 casing volumes 3*CV)(gals): 8.3376	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	2.75	5.50	8.50				
Time (military)	1146	1150	1155	1200				
PH (s.u.)	6.17	6.13	6.14	6.24				
Specific Conductivity (µS/cm)	126	130	132	134				
Water Temperature (ºC)	24.55	22.20	22.33	22.15				
Turbidity (~~NTU~~) (mg/L)	83	85	85	86				
Dissolved Oxygen (mg/L)	6.27	6.08	5.48	5.81				

Sampling Data

Sampled By: Alex Lin	Sampling Time: 1200	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: [signature]

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions: Cloudy w/ Sun	Ambient Air Temp (°F): ~72°F

Quality Assurance

Meter Name: Aquameter AM-200	Serial #: 134080427	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) Aquaprobe AP-2000-D	103790420	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) Aquaprobe AP-2000-D	103790420	Y or N			
~~LaMotte~~ (Turbidity) Aquaprobe AP-2000-D	103790420	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-28	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 25 to 40	Total Well Depth (TWD) (ft.): 40.54
Depth to Free Product (DFP) (ft.): —		Depth to Groundwater (DGW) (ft.): 17.42	Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 23.12	1 casing volume (CV=LWC*C)(gals): 3.6992	3 casing volumes 3*CV)(gals): 11.0976	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	3.75	7.5	11.0				
Time (military)	0744	0754	0804					
PH (s.u.)	6.51	6.71	5.94					
Specific Conductivity (µS/cm)	74	77	71					
Water Temperature (°C)	17.30	17.48	17.50					
Turbidity (~~NTU~~) (mg/L)	47	50	46					
Dissolved Oxygen (mg/L)	5.38	5.45	6.28					

Sampling Data

Sampled By: Alex Lin	Sampling Time: 0755	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry at 9.5 gal

Signature: [signature]

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19 | Site ID #: 07960 | Site Name: 378 Truck Stop | Field Personnel: Justin Armentrout, Alex Lin

County: Edgefield | Project Manager: Steven Martin | General Weather Conditions: Cloudy w/ Sun | Ambient Air Temp (°F): ~72°F

Quality Assurance

Meter Name	Serial #:	Calibration:			
Aquameter AM-200	134080427				
~~YSI 63~~ (pH, Specific Conductivity, Temperature) Aquaprobe AP-2000-D	103790420	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) Aquaprobe AP-2000-D	103790420	Y or N			
~~LaMotte~~ (Turbidity) Aquaprobe AP-2000-D	103790420	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-29 | Well Diameter (ft.): 2" | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: X Bailer ___Pump

X MW ___IW ___RW ___Other___
___Private WSW ___Public WSW

Screened Interval (ft.): 25 to 40

Total Well Depth (TWD) (ft.): 40.81

Depth to Free Product (DFP) (ft.): —

Depth to Groundwater (DGW) (ft.): 20.21

Free Product Thickness (ft.): —

Length of water column (LWC=TWD-DGW)(ft.): 20.6 | 1 casing volume (CV=LWC*C)(gals): 3.29 | 3 casing volumes 3*CV)(gals): 9.88 | 5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	3.25	7.0	10.0				
Time (military)	2036	2040	2045	2050				
PH (s.u.)	5.85	5.72	5.66	5.72				
Specific Conductivity (μS/cm)	100	173	180	186				
Water Temperature (°C)	19.90	19.90	19.95	20.0				
Turbidity ~~(NTU)~~ (mg/L)	65	111	117	120				
Dissolved Oxygen (mg/L)	5.83	4.44	4.16	3.90				

Sampling Data

Sampled By: Alex Lin | Sampling Time: 2050 | Duplicate: Y or N | If yes, Duplicate Time:

Notes:

Signature: [signature]

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19 | Site ID #: 07960 | Site Name: 378 Truck Stop | Field Personnel: Justin Armentrout, Alex Lin

County: Edgefield | Project Manager: Steven Martin | General Weather Conditions: Cloudy w/ Sun | Ambient Air Temp (°F): ~72°F

Quality Assurance

Meter Name: Aquameter AM-200 | Serial #: 134080427 | Calibration:

~~YSI 63~~ (pH, Specific Conductivity, Temperature) Aquaprobe AP-2000-D | 103790420 | pH 4.0: Y or N (Y) | pH 7.0: Y or N (Y) | pH 10.0: Y or N (Y) | S.C.: Y or N (Y)

~~YSI 55~~ (Dissolved Oxygen) Aquaprobe AP-2000-D | 103790420 | Y or N (Y)

~~LaMotte~~ (Turbidity) Aquaprobe AP-2000-D | 103790420 | 0.0 NTU: Y or N (N) | 1.0 NTU: Y or N (N) | 10.0 NTU: Y or N (N)

Well Information

Well ID: MW-30 | Well Diameter (ft.): 2" | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: X Bailer ___Pump

X MW ___IW ___RW ___Other________ ___Private WSW ___Public WSW | Screened Interval (ft.): 30 to 45 | Total Well Depth (TWD) (ft.): 45.78

Depth to Free Product (DFP) (ft.): — | Depth to Groundwater (DGW) (ft.): 26.57 | Free Product Thickness (ft.): —

Length of water column (LWC=TWD-DGW)(ft.): 19.21 | 1 casing volume (CV=LWC*C)(gals): 3.0736 | 3 casing volumes 3*CV)(gals): 9.2208 | 5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	0.25	3.0	6.25	9.25				
Time (military)	1536	1540	1545	1550				
PH (s.u.)	6.46	6.44	6.53	6.57				
Specific Conductivity (µS/cm)	329	362	350	345				
Water Temperature (°C)	24.13	22.20	21.60	21.50				
Turbidity (NTU)	214	235	227	224				
Dissolved Oxygen (mg/L)	4.71	4.37	4.42	3.76				

Sampling Data

Sampled By: Alex Lin | Sampling Time: 1550 | Duplicate: Y or N (N) | If yes, Duplicate Time:

Notes: ________________________________

Signature: [signature]

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/12/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (ºF):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A101835	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A101835	Y or N			
[redacted] (Turbidity) YSI Pro DSS	19A101835	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW 1	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ____Pump
x MW ___IW ___RW ___Other______ ___Private WSW ___Public WSW	Screened Interval (ft.): 58 to 63		Total Well Depth (TWD) (ft.): 64.44
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 21.31		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 43.13	1 casing volume (CV=LWC*C)(gals): 6.90	3 casing volumes 3*CV)(gals): 20.70	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	7	14	20.75				
Time (military)	11:46	1158	1207	1215				
PH (s.u.)	7.10	6.63	6.62	6.68				
Specific Conductivity (µS/cm)	390.3	406.2	398.9	410.7				
Water Temperature (ºC)	18.9	19.6	18.8	18.9				
Turbidity (NTU)	2.85	8.82	13.95	0.15				
Dissolved Oxygen (mg/L)	6.90	3.15	4.22	2.18				

Sampling Data

Sampled By: Justin Armentrout	Sampling Time: 1215	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ____

Signature: Just Armentrout

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec	**Underground Storage Tank Management Division** **Field Data Information Sheet – Sampling**

Site Information

Date: 6/12/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout Alex Lin
County: Egdefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (ºF):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A101835	pH 4.0: X or N	pH 7.0: X or N	pH 10.0: X or N	S.C.: X or N
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A101835	X or N			
[redacted] (Turbidity) YSI Pro DSS	19A101835	0.0 NTU: X or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW 2	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other_______ ___Private WSW ___Public WSW	Screened Interval (ft.): 75 to 80		Total Well Depth (TWD) (ft.): 79.26
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 19.22		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 59.04	1 casing volume (CV=LWC*C)(gals): 9.4464	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol. 13	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	9.5	~~18.19~~	28.25				
Time (military)	1259	1302	1303					
PH (s.u.)	9.75	10.67	10.80					
Specific Conductivity (µS/cm)	293.4	417.6	456.7					
Water Temperature (ºC)	19.1	19.4	19.3					
Turbidity (NTU)	0.22	31.18	35.80					
Dissolved Oxygen (mg/L)	6.66	4.88	4.14					

Sampling Data

Sampled By: Justin Armentrout	Sampling Time: 1303	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ 13 gal

Signature: Just Armentrout

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/12/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (ºF):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A101835	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A10 1835	Y or N			
[redacted](Turbidity) YSI Pro DSS	19A10 1835	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW 3	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other________ ___Private WSW ___Public WSW	Screened Interval (ft.): 75 to 80		Total Well Depth (TWD) (ft.): 82.03
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 16.53		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 65.5	1 casing volume (CV=LWC*C)(gals): 10.48	3 casing volumes 3*CV)(gals): 31.44	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	10.5	21.0	31.5				
Time (military)	1523	1532	1540	1552				
PH (s.u.)	10.45	11.37	9.62	8.99				
Specific Conductivity (μS/cm)	432.1	933	461.1	473.2				
Water Temperature (ºC)	17.8	18.0	18.0	18.1				
Turbidity (NTU)	1.00	12.69	34.42	10.95				
Dissolved Oxygen (mg/L)	3.19	2.85	3.09	1.95				

Sampling Data

Sampled By: Justin Armentrout	Sampling Time: 1552	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ____

Signature: Justin Armentrout

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (ºF):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A101835	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A101835	Y or N			
[redacted] (Turbidity) YSI Pro DSS	19A101835	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW 4	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 64 to 69		Total Well Depth (TWD) (ft.): 69.38
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 18.74		Free Product Thickness (ft.):
Length of water column (LWC=TWD-DGW)(ft.): 50.64	1 casing volume (CV=LWC*C)(gals): 8.1024	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	8.25	~~16.25~~ 10.50	24.25				
Time (military)	1130	1142	1153					
PH (s.u.)	8.46	8.44	9.64					
Specific Conductivity (µS/cm)	395.8	389.8	447.0					
Water Temperature (ºC)	20.5	20.4	20.9	DRY				
Turbidity (NTU)	600	1.86	102.52	@ 10.50				
Dissolved Oxygen (mg/L)	6.23	7.09	5.10					

Sampling Data

Sampled By: Justin Armentrout	Sampling Time: 1153	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

DRY @ 10.50

Signature: Justin Armentrout

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (°F):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A101835	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A101835	Y or N			
[redacted](Turbidity) YSI Pro DSS	19A101835	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW 5	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
x MW ___IW ___RW ___Other________ ___Private WSW ___Public WSW	Screened Interval (ft.): 54 to 59		Total Well Depth (TWD) (ft.): 59.23
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 24.69		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 34.54	1 casing volume (CV=LWC*C)(gals): 5.5264	3 casing volumes 3*CV)(gals): 16.57~~8~~92	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	5.5	~~11.0~~7	16.5				
Time (military)	0721	0726	0733					
PH (s.u.)	6.64	6.67	6.97					
Specific Conductivity (µS/cm)	123.8	125.6	177.4					
Water Temperature (°C)	18.1	18.5	18.6					
Turbidity (NTU)	79.47	164.91	773.09	L/V Dry@7				
Dissolved Oxygen (mg/L)	2.98	3.21	2.46					

Sampling Data

Sampled By: Justin Armentrout	Sampling Time: 0733	Duplicate: Y or N	If yes, Duplicate Time:

Notes: L/V Dry@7

Signature: Justin Armentrout

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (ºF):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A101835	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A101835	Y or N			
[redacted] (Turbidity) YSI Pro DSS	19A101835	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW 7	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ___Bailer ___Pump
x MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 54 to 59		Total Well Depth (TWD) (ft.): 59.66
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 12.83		Free Product Thickness (ft.):
Length of water column (LWC=TWD-DGW)(ft.): 46.83	1 casing volume (CV=LWC*C)(gals): 7.4928	3 casing volumes 3*CV)(gals): 22.4784	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	7.5	11 ~~15.0~~	22.5				
Time (military)	0818	0826	0843					
PH (s.u.)	12.11	12.38	12.44	L/V				
Specific Conductivity (µS/cm)	2895	6408	6714					
Water Temperature (ºC)	19.3	19.3	19.0	Dry @				
Turbidity (NTU)	1.56	14.44	72.23					
Dissolved Oxygen (mg/L)	8.49	2.47	3.69	11g				

Sampling Data

Sampled By: Justin Armentrout	Sampling Time: 0843	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ 11g

Signature: Justin Armentrout

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (ºF):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A101835	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A10 1835	Y or N			
[redacted] (Turbidity) YSI Pro DSS	19A10 1835	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW 8	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ____Bailer ____Pump
x MW ___IW ___RW ___Other________ ___Private WSW ___Public WSW	Screened Interval (ft.): 54 to 59		Total Well Depth (TWD) (ft.): 59.39
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 17.78		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 41.61	1 casing volume (CV=LWC*C)(gals): 6.6576	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	6.75	~~13.5~~	20.0				
Time (military)	0901	0921						
PH (s.u.)	11.67	11.96	↓					
Specific Conductivity (µS/cm)	1111	2186	Dry @					
Water Temperature (ºC)	18.7	18.8	8					
Turbidity (NTU)	.39	6.82						
Dissolved Oxygen (mg/L)	8.35	4.40						

Sampling Data

Sampled By: ~~Just~~ Justin Armentrout	Sampling Time: 0921	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ 8

Signature: Justin Armentrout

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (ºF):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A101835	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A101835	Y or N			
[redacted](Turbidity) YSI Pro DSS	19A101835	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW 10	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: ____Bailer ____Pump
X MW ___IW ___RW ___Other________ ___Private WSW ___Public WSW	Screened Interval (ft.): 60' to 65'		Total Well Depth (TWD) (ft.): 65.68
Depth to Free Product (DFP) (ft.): —	Depth to Groundwater (DGW) (ft.): 61.58		Free Product Thickness (ft.): —
Length of water column (LWC=TWD-DGW)(ft.): 4.1	1 casing volume (CV=LWC*C)(gals): .65	3 casing volumes 3*CV)(gals): 1.96	5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	.50	1	2				
Time (military)	1000							
PH (s.u.)	10.95	Dry @ Initial						
Specific Conductivity (µS/cm)	1185							
Water Temperature (ºC)	19.1							
Turbidity (NTU)	1000+							
Dissolved Oxygen (mg/L)	3.27							

Sampling Data

Sampled By: Justin Armentrout	Sampling Time: 1002	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ Initial

Signature: Just Armentrout

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 6/13/19	Site ID #: 07960	Site Name: 378 Truck Stop	Field Personnel: Justin Armentrout, Alex Lin
County: Edgefield	Project Manager: Steven Martin	General Weather Conditions:	Ambient Air Temp (ºF):

Quality Assurance

Meter Name	Serial #:	Calibration:			
YSI [redacted] (pH, Specific Conductivity, Temperature) Pro DSS	19A101835	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
YSI [redacted] (Dissolved Oxygen) Pro DSS	19A101835	Y or N			
[redacted](Turbidity) YSI Pro DSS	19A101835	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW 11

Well Diameter (ft.): 2"

Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652

Method of Purging/Sample Collection: ____Bailer ____Pump

x MW ___IW ___RW ___Other________________ ___Private WSW ___Public WSW

Screened Interval (ft.): 55' to 60'

Total Well Depth (TWD) (ft.): 60.24

Depth to Free Product (DFP) (ft.): —

Depth to Groundwater (DGW) (ft.): 12.72

Free Product Thickness (ft.): —

Length of water column (LWC=TWD-DGW)(ft.): 47.52

1 casing volume (CV=LWC*C)(gals): 7.6032

3 casing volumes 3*CV)(gals):

5 casing volumes (5*CV)(gals):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	7.75	15.25	22.75				
Time (military)	1018	1024	1033	1042				
PH (s.u.)	8.51	8.61	8.09	7.91				
Specific Conductivity (µS/cm)	316.0	316.1	365	363.1				
Water Temperature (ºC)	20.8	20.2	19.6	19.8				
Turbidity (NTU)	12.32	10.55	28.20	31.48				
Dissolved Oxygen (mg/L)	3.44	3.21	3.45	3.02				

Sampling Data

Sampled By: Justin Armentrout	Sampling Time: 1042	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ____

Signature: Justin Armentrout

APPENDIX D
Historical Ground Water Elevation Data and Ground Water Quality Data

TABLE 2
GROUNDWATER ELEVATION DATA[1]
378 TRUCK STOP

Well ID	Date Measured	Top of Casing Elevation (ft)	Depth to Free Product (ft)	Depth to Ground-water (ft)	Free Product Thickness (ft)	Ground-water Elevation[2] (ft)	Well Depth (ft)	Screened Interval (ft)
07960-MW1	5/25/2010	101.85	15.33	15.37	0.04	86.51	unknown	unknown
	10/18/2010	101.98	26.50	26.54	0.04	75.47		
	4/19/2011		--	21.70	--	80.28		
	8/29/2011		--	31.17	--	70.81		
	2/12/2013		28.12	28.21	0.09	73.84		
	9/30/2013		23.10	23.14	0.04	78.87		
	7/28/2014		--	23.95	--	78.03		
07960-MW2	5/25/2010	101.02	--	16.82	--	84.20	41.72	unknown
	10/18/2010	100.99	--	27.10	--	73.89		
	4/19/2011		--	23.34	--	77.68		
	8/29/2011		--	30.91	--	70.08		
	2/12/2013		--	31.33	--	69.66		
	9/30/2013		--	24.02	--	76.97		
	7/28/2014		--	24.39	--	76.60		
07960-MW3	5/25/2010	101.46	--	17.28	--	84.18	40	10-40
	10/18/2010	101.54	--	27.58	--	73.96		
	4/19/2011		--	23.78	--	77.76		
	8/29/2011		--	31.38	--	70.16		
	2/12/2013		--	31.79	--	69.75		
	9/30/2013		--	24.51	--	77.03		
	7/28/2014		--	24.74	--	76.80		
07960-MW4	5/25/2010	100.50	--	16.35	--	84.15	40	10-40
	10/18/2010	100.48	--	26.20	--	74.28		
	4/19/2011		--	22.12	--	78.36		
	8/29/2011		--	29.92	--	70.56		
	2/12/2013		--	30.00	--	70.48		
	9/30/2013		--	23.09	--	77.39		
	7/28/2014		--	23.10	--	77.38		
07960-MW5	5/25/2010	104.21	--	27.30	--	76.91	40	20-40
	10/18/2010	104.18	--	30.24	--	73.94		
	4/19/2011		--	27.63	--	76.55		
	8/29/2011		--	34.18	--	70.00		
	2/12/2013		--	36.02	--	68.16		
	9/30/2013		--	27.51	--	76.67		
	7/28/2014		--	27.01	--	77.17		
07960-MW6	10/18/2010	102.25	--	28.01	--	74.24	35.05	20.05-35.05
	4/19/2011		--	23.06	--	79.19		
	8/29/2011		--	32.01	--	70.24		
	2/12/2013		--	30.98	--	71.27		
	9/30/2013		--	24.52	--	77.73		
	7/28/2014		--	25.29	--	76.96		
07960-MW7	10/18/2010	99.72	--	25.10	--	74.62	34.92	19.92-34.92
	4/19/2011		--	21.04	--	78.68		
	8/29/2011		--	25.83	--	73.89		
	2/12/2013		--	28.60	--	71.12		
	9/30/2013		--	20.10	--	79.62		
	7/28/2014		--	19.89	--	79.83		

TABLE 2
GROUNDWATER ELEVATION DATA[1]
378 TRUCK STOP

Well ID	Date Measured	Top of Casing Elevation (ft)	Depth to Free Product (ft)	Depth to Ground-water (ft)	Free Product Thickness (ft)	Ground-water Elevation[2] (ft)	Well Depth (ft)	Screened Interval (ft)
07960-MW8	10/18/2010	99.92	--	25.45	--	74.47	35.08	20.08-35.08
	4/19/2011		--	22.51	--	77.41		
	8/29/2011		--	28.62	--	71.30		
	2/12/2013		--	29.52	--	70.40		
	9/30/2013		--	24.74	--	75.18		
	7/28/2014		--	23.80	--	76.12		
07960-MW9	10/18/2010	94.83	--	30.31	--	64.52	35.17	20.17-35.17
	4/19/2011		--	24.13	--	70.70		
	8/29/2011		--	28.08	--	66.75		
	2/12/2013		--	30.51	--	64.32		
	9/30/2013		--	23.00	--	71.83		
	7/28/2014		--	22.60	--	72.23		
07960-MW10	10/18/2010	99.12	--	29.73	--	69.39	40.16	25.16-40.16
	4/19/2011		--	26.18	--	72.94		
	8/29/2011		--	31.51	--	67.61		
	2/12/2013		--	27.25	--	71.87		
	9/30/2013		--	25.38	--	73.74		
	7/28/2014		--	25.27	--	73.85		
07960-MW11	10/18/2010	102.61	--	28.75	--	73.86	35.23	20.23-35.23
	4/19/2011		--	25.59	--	77.02		
	8/29/2011		--	32.42	--	70.19		
	2/12/2013		--	33.99	--	68.62		
	9/30/2013		--	25.10	--	77.51		
	7/28/2014		--	25.23	--	77.38		
07960-MW12	10/18/2010	103.46	--	29.63	--	73.83	34.99	19.99-34.99
	4/19/2011		--	26.11	--	77.35		
	8/29/2011		--	33.56	--	69.90		
	2/12/2013		--	Dry	--	Dry		
	9/30/2013		--	26.25	--	77.21		
	7/28/2014		--	24.89	--	78.57		
07960-MW13	10/18/2010	101.48	--	27.63	--	73.85	40.19	25.19-40.19
	4/19/2011		--	23.50	--	77.98		
	8/29/2011		--	31.34	--	70.14		
	2/12/2013		--	31.69	--	69.79		
	9/30/2013		--	24.74	--	76.74		
	7/28/2014		--	22.95	--	78.53		
07960-MW14	10/18/2010	103.48	--	29.99	--	73.49	39.74	24.74-39.74
	4/19/2011		--	28.52	--	74.96		
	8/29/2011		--	34.59	--	68.89		
	2/12/2013		--	35.07	--	68.41		
	9/30/2013		--	27.01	--	76.47		
	7/28/2014		--	28.00	--	75.48		
07960-MW15	10/18/2010	103.16	--	30.32	--	72.84	40.13	25.13-40.13
	4/19/2011		--	25.18	--	77.98		
	8/29/2011		--	33.50	--	69.66		
	2/12/2013		--	33.42	--	69.74		
	9/30/2013		--	26.85	--	76.31		
	7/28/2014		--	27.60	--	75.56		

TABLE 2
GROUNDWATER ELEVATION DATA[1]
378 TRUCK STOP

Well ID	Date Measured	Top of Casing Elevation (ft)	Depth to Free Product (ft)	Depth to Ground-water (ft)	Free Product Thickness (ft)	Ground-water Elevation[2] (ft)	Well Depth (ft)	Screened Interval (ft)
07960-MW-16	10/18/2010	101.32	--	30.79	--	70.53	40.11	25.11-40.11
	4/19/2011		--	24.59	--	76.73		
	8/29/2011		--	32.68	--	68.64		
	2/12/2013		--	33.56	--	67.76		
	9/30/2013		--	25.31	--	76.01		
	7/28/2014		--	25.31	--	76.01		
07960-MW17	10/18/2010	98.40	--	23.74	--	74.66	35.02	20.02-35.02
	4/19/2011		--	18.20	--	80.20		
	8/29/2011		--	28.55	--	69.85		
	2/12/2013		--	19.25	--	79.15		
	9/30/2013		--	20.20	--	78.20		
	7/28/2014		--	21.00	--	77.40		
07960-MW18	10/18/2010	95.05	--	22.02	--	73.03	35.67	20.67-35.67
	4/19/2011		--	15.71	--	79.34		
	8/29/2011		--	23.00	--	72.05		
	2/12/2013		--	23.23	--	71.82		
	9/30/2013		--	18.25	--	76.80		
	7/28/2014		--	18.35	--	76.70		
07960-MW19	10/18/2010	101.07	--	27.62	--	73.45	38.57	23.57-38.57
	4/19/2011		--	21.63	--	79.44		
	8/29/2011		--	30.56	--	70.51		
	2/12/2013		--	32.05	--	69.02		
	9/30/2013		--	24.35	--	76.72		
	7/28/2014		--	25.64	--	75.43		
07960-MW20	12/6/2010	110.52	--	41.77	--	68.75	45.05	30.05-45.05
	4/19/2011		--	37.72	--	72.80		
	8/29/2011		--	41.27	--	69.25		
	2/12/2013		--	Dry	--	Dry		
	9/30/2013		--	35.84	--	74.68		
	7/28/2014		--	31.20	--	79.32		
07960-MW21	12/6/2010	101.70	--	32.66	--	69.04	40.16	25.16-40.16
	4/19/2011		--	24.19	--	77.51		
	8/29/2011		--	38.77	--	62.93		
	2/12/2013		--	32.00	--	69.70		
	9/30/2013		--	22.41	--	79.29		
	7/28/2014		--	24.15	--	77.55		
07960-MW22	12/6/2010	105.13	--	34.95	--	70.18	40.09	25.09-40.09
	4/19/2011		--	28.56	--	76.57		
	8/29/2011		--	35.88	--	69.25		
	2/12/2013		37.61	37.98	0.37	67.43		
	9/30/2013		--	29.18	--	75.95		
	7/28/2014		--	29.30	--	75.83		
07960-MW23	12/6/2010	100.01	--	29.26	--	70.75	37.24	22.24-37.24
	4/19/2011		--	19.69	--	80.32		
	8/29/2011		--	29.01	--	71.00		
	2/12/2013		--	26.28	--	73.73		
	9/30/2013		--	22.83	--	77.18		
	7/28/2014		--	24.82	--	75.19		
07960-MW24	12/6/2010	99.08	--	32.25	--	66.83	40.13	25.13-40.13
	4/19/2011		--	25.58	--	73.50		
	8/29/2011		--	31.62	--	67.46		
	2/12/2013		--	33.17	--	65.91		
	9/30/2013		--	26.53	--	72.55		
	7/28/2014		--	26.45	--	72.63		

TABLE 2
GROUNDWATER ELEVATION DATA[1]
378 TRUCK STOP

Well ID	Date Measured	Top of Casing Elevation (ft)	Depth to Free Product (ft)	Depth to Ground-water (ft)	Free Product Thickness (ft)	Ground-water Elevation[2] (ft)	Well Depth (ft)	Screened Interval (ft)
07960-MW25	12/6/2010	101.54	--	32.00	--	69.54	39.98	24.98-39.98
	4/19/2011		--	23.44	--	78.10		
	8/29/2011		--	32.18	--	69.36		
	2/12/2013		--	33.28	--	68.26		
	9/30/2013		--	24.58	--	76.96		
	7/28/2014		--	25.45	--	76.09		
07960-MW26	12/6/2010	97.25	--	29.08	--	68.17	38.74	23.74-38.74
	4/19/2011		--	21.07	--	76.18		
	8/29/2011		--	29.08	--	68.17		
	2/12/2013		--	30.29	--	66.96		
	9/30/2013		--	21.84	--	75.41		
	7/28/2014		--	18.25	--	79.00		
07960-MW27	12/6/2010	97.20	--	28.48	--	68.72	35.10	20.10-35.10
	4/19/2011		--	24.42	--	72.78		
	8/29/2011		--	29.24	--	67.96		
	2/12/2013		--	30.27	--	66.93		
	9/30/2013		--	22.87	--	74.33		
	7/28/2014		--	22.75	--	74.45		
07960-MW28	12/6/2010	101.29	--	33.39	--	67.90	40.03	25.03-40.03
	4/19/2011		--	20.91	--	80.38		
	8/29/2011		--	29.92	--	71.37		
	2/12/2013		--	28.86	--	72.43		
	9/30/2013		--	24.65	--	76.64		
	7/28/2014		--	22.05	--	79.24		
07960-MW29	2/12/2013	101.08	--	32.04	--	69.04	40.15	25.15-40.15
	9/30/2013		--	23.99	.--	77.09		
	7/28/2014		--	23.25	.--	77.83		
07960-MW30	2/12/2013	104.62	--	36.20	--	68.42	45.05	30.05-45.05
	9/30/2013		--	28.51	--	76.11		
	7/28/2014		--	26.14	--	78.48		
07960-MW31	2/12/2013	103.20	--	35.31	--	67.89	43.96	28.96-43.96
	9/30/2013		--	27.30	--	75.90		
	7/28/2014		--	24.80	--	78.40		
07960-TW1	10/18/2010	101.83	--	28.44	--	73.39	63.27	58.27-63.27
	4/19/2011		--	25.53	--	76.30		
	8/29/2011		--	32.26	--	69.57		
	2/12/2013		--	33.22	--	68.61		
	9/30/2013		--	25.66	--	76.17		
	7/28/2014		--	25.55	--	76.28		
07960-TW2	10/18/2010	101.97	--	29.57	--	72.40	80.23	75.23-80.23
	4/19/2011		--	23.83	--	78.14		
	8/29/2011		--	31.62	--	70.35		
	2/12/2013		--	33.22	--	68.75		
	9/30/2013		--	24.27	--	77.70		
	7/28/2014		--	24.59	--	77.38		

TABLE 2
GROUNDWATER ELEVATION DATA[1]
378 TRUCK STOP

Well ID	Date Measured	Top of Casing Elevation (ft)	Depth to Free Product (ft)	Depth to Ground-water (ft)	Free Product Thickness (ft)	Ground-water Elevation[2] (ft)	Well Depth (ft)	Screened Interval (ft)
07960-TW-3	10/18/2010	95.33	--	25.39	--	69.94	80.62	75.62-80.62
	4/19/2011		--	23.83	--	71.50		
	8/29/2011		--	27.78	--	67.55		
	2/12/2013		--	29.97	--	65.36		
	9/30/2013		--	22.78	--	72.55		
	7/28/2014		--	22.50	--	72.83		
07960-TW4	10/18/2010	99.23	--	43.13	--	56.10	68.56	63.56-68.56
	4/19/2011		--	27.11	--	72.12		
	8/29/2011		--	31.09	--	68.14		
	2/12/2013		--	32.81	--	66.42		
	9/30/2013		--	23.45	--	75.78		
	7/28/2014		--	22.19	--	77.04		
07960-TW5	10/18/2010	103.62	--	29.69	--	73.93	58.38	53.38-58.38
	4/19/2011		--	25.96	--	77.66		
	8/29/2011		--	33.09	--	70.53		
	2/12/2013		--	34.60	--	69.02		
	9/30/2013		--	26.42	--	77.20		
	7/28/2014		--	26.91	--	76.71		
07960-TW6	10/18/2010	101.29	--	31.22	--	70.07	58.55	53.55-58.55
	4/19/2011		--	25.25	--	76.04		
	8/29/2011		--	33.00	--	68.29		
	2/12/2013		--	33.80	--	67.49		
	9/30/2013		--	26.72	--	74.57		
	7/28/2014		--	27.55	--	73.74		
07960-TW7	10/18/2010	98.13	--	50.90	--	47.23	58.94	53.94-58.94
	4/19/2011		--	16.83	--	81.30		
	8/29/2011		--	36.98	--	61.15		
	2/12/2013		--	37.54	--	60.59		
	9/30/2013		--	19.20	--	78.93		
	7/28/2014		--	15.79	--	82.34		
07960-TW8	10/18/2010	101.03	--	28.18	--	72.85	58.53	53.53-58.53
	4/19/2011		--	22.19	--	78.84		
	8/29/2011		--	41.54	--	59.49		
	2/12/2013		--	42.13	--	58.90		
	9/30/2013		--	32.10	--	68.93		
	7/28/2014		--	25.57	--	75.46		
07960-TW9	12/6/2010	96.92	--	28.96	--	67.96	80.12	75.12-80.12
	4/19/2011		--	21.14	--	75.78		
	8/29/2011		--	28.94	--	67.98		
	2/12/2013		--	30.22	--	66.70		
	9/30/2013		--	22.59	--	74.33		
	7/28/2014		--	23.95	--	72.97		

Notes:
1. Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level; data reported in feet.
2. Groundwater elevations adjusted for the presence of free product, where present, with an assumed density of 0.75 g/cm^3.
3. May 2010 suvey data collected by Environmental Compliance Services, Inc. during Tier I assessment activities.
4. Subsequent October and December 2010 survey data provided by Pittman Professional Land Surveying.
5. 07960-MW20 installed with a 3 ft stickup riser.

TABLE 3A
GROUNDWATER ANALYTICAL DATA[1]
CHEMICALS OF CONCERN
378 TRUCK STOP

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Naph-thalene (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Total Lead (ug/L)
RBSL[9]		5	1,000	700	10,000	40	25	5	0.05	15
07960 - MW1	5/25/2010	**Free Product**								
	10/18/2010	**Free Product**								
	4/19/2011	**456**	210	**1,010**	4,700	<50.0	**277**	<50.0	**1.2**	NR
	8/29/2011	**1,130**	317	**941**	3,779	<50	**225**	**82**	**1.3**	NR
	2/13/2013	Free Product								
	9/30/2013	Free Product								
	7/30/2014	**1,080**	830	**1,680**	7,440	<50.0	**619**	**78.0**	**3.6**	NR
07960 - MW2	5/25/2010	**109** [2]	<5.0[3]	114	312	<5.0	**50.6**	NR[4]	0.035	NR
	10/19/2010	1.7 J[5]	<5.0	<5.0	2.9 J	<5.0	<5.0	**24.8**	<0.020	NR
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**28.5**	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**26.1**	<0.019	NR
	2/13/2013	6.7	<5.0	5.0	13.1	<5.0	<5.0	**28.8**	<0.020	NR
	10/1/2013	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	**26.7**	<0.020	NR
	7/30/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**22.1**	<0.020	NR
07960 - MW3	5/25/2010	**239**	139	**815**	4,800	<5.0	**285**	**126**	**0.099**	**28.9**
	10/18/2010	**6,820**	343	**981**	6,260	3.4 J	**449**	**561**	**0.31**	NR
	4/19/2011	**7,300**	253	**921**	5,060	<250	**342**	**542**	**0.30**	NR
	8/29/2011	**7,000**	572	**1,170**	6,710	<250	**371**	**438**	0.033	NR
	2/13/2013	**6,860**	366	660	3,256	<250	**349**	**586**	**0.40**	NR
	10/1/2013	**8400**	784	**1,540**	6,080	<250	**498**	**568**	**0.80**	NR
	7/29/2014	**6960**	684	**1,180**	5,330	<250	**469**	**521**	**1.50**	NR
07960 - MW4	5/25/2010	2.9 J	<5.0	1.4 J	<15.0	<5.0	12.7	3.5 J	<0.020	**62.8**
	10/18/2010	**5.7**	<5.0	<5.0	<15.0	3.0 J	3.7 J	4.8 J	<0.020	NR
	4/20/2011	**16.4**	<5.0	6.0	14.0	<5.0	9.3	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.021	NR
	10/1/2013	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	NR
	7/30/2014	**11.4**	<5.0	2.8J	<15.0	<5.0	3.4J	2.2J	<0.020	NR
07960 - MW5	5/25/2010	3.6 J	1.8 J	4.0 J	22.3	<5.0	<5.0	4.8 J	<0.020	11.8
	10/18/2010	**102**	<5.0	4.1 J	135.9	3.2 J	**43.5**	**6.6**	<0.020	NR
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	NR
	7/30/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - MW6	10/19/2010	<5.0	<5.0	<5.0	<15.0	3.0 J	<5.0	3.5 J	<0.020	<5.0
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - MW7	10/19/2010	**12.9**	4.6 J	3.2 J	34.2 J	<5.0	<5.0	4.6 J	**0.40**	<5.0
	4/20/2011	**794**	108	410	2,536	<5.0	**116**	**66.6**	**6.9**	NR
	8/29/2011	**275**	<10.0	42.6	178.8	<10.0	**30.7**	**26**	**0.58**	NR
	2/13/2013	**186**	<10.0	23.4	<30.0	<10.0	<10.0	**11**	**0.028**	NR
	10/1/2013	**2,100**	32.0	652	4,120	<10.0	**328**	**123**	**7.6**	NR
	7/29/2014	**2,200**	13.1	623	2,519	3.0J	**250J**	**147**	**8.1**	NR
07960 - MW8	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/20/2011	<5.0	<5.0	<5.0	4.0 J	<5.0	2.2 J	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	NR
	7/30/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR

TABLE 3A
GROUNDWATER ANALYTICAL DATA[1]
CHEMICALS OF CONCERN
378 TRUCK STOP

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Naph-thalene (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Total Lead (ug/L)
RBSL[9]		5	1,000	700	10,000	40	25	5	0.05	15
07960 - MW9	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/19/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - MW10	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	<5.0
	4/19/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - MW11	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	1.3 J	<0.020	<5.0
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	**7.9**	<5.0	<5.0	<15.0	<5.0	<5.0	2.8 J	<0.019	NR
	2/13/2013	**14.2**	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	**16.2**	<5.0	<5.0	<15.0	<5.0	2.1J	3.0J	<0.020	NR
	7/30/2014	**12.9**	<5.0	<5.0	<15.0	<5.0	<5.0	**5.1**	<0.020	NR
07960 - MW12	10/19/2010	**387**	**1,210**	120	2,650	<5.0	**187**	**24.7**	**4.8**	<5.0
	4/20/2011	**1,360**	987	462	1,659	<50.0	**91.3**	**75.7**	**6.0**	NR
	8/29/2011	**429**	26.9	8.3 J	18.3 J	<12.5	5.2 J	**126**	**2.5**	NR
	2/13/2013	DRY								
	10/1/2013	**2,020**	169	193	840	<20.0	**139**	**94.2**	**1.3**	NR
	7/29/2014	**2,530**	121	526	1,282	<100	**235**	**161**	**1.6**	NR
07960 - MW13	10/19/2010	**333**	109	58.3	282	<10.0	10.1	**61.9**	0.022	<5.0
	4/20/2011	**376**	46.8	31.2	394	<12.5	11.7 J	**57.0**	**0.074**	NR
	8/29/2011	**65.5**	11.7	9.2	34.2	<5.0	<5.0	**41.7**	0.033	NR
	2/13/2013	**376**	28.7	33.5	330.7	<5.0	12.3	**34.3**	<0.020	NR
	10/1/2013	**533**	25.1	22.8	139	<10.0	**53.3**	**38.9**	<0.020	NR
	7/29/2014	**881**	25.1	30.6	211.7	<25.0	**85.7**	**57.6**	<0.020	NR
07960 - MW14	10/19/2010	<5.0	<5.0	2.5 J	9.5 J	<5.0	<5.0	<5.0	<0.020	<5.0
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	2.8 J	<5.0	3.4 J	5.8 J	<5.0	22.0	<5.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	3.3J	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	7/30/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - MW15	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	3.0 J	<0.020	<5.0
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - MW16	10/19/2010	**246**	26.1	14.3	229.2	<5.0	<5.0	2.5 J	<0.020	<5.0
	4/19/2011	**158**	8.5	2.5 J	96.2	<5.0	5.8	<5.0	<0.020	NR
	8/29/2011	NR	NR	NR	NR	NR	NR	NR	<0.019	NR
	2/13/2013	**51.6**	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	**24.5**	<5.0	<5.0	10.2	<5.0	6.6	<5.0	<0.020	NR
	7/28/2014	**42.7**	2.3J	3.5J	94.4	<5.0	43.7	<5.0	<0.020	NR
07960 - MW17	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	4.3 J
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	9/30/2013	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	NR
	7/28/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR

TABLE 3A
GROUNDWATER ANALYTICAL DATA[1]
CHEMICALS OF CONCERN
378 TRUCK STOP

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Naph-thalene (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Total Lead (ug/L)
RBSL[2]		5	1,000	700	10,000	40	25	5	0.05	15
07960 - MW18	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	<5.0
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	9/30/2013	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - MW-19	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.021	NR
	9/30/2013	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.020	NR
	7/28/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - MW20	12/6/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	2/13/2013	DRY								
	10/1/2013	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<0.019	NR
	7/30/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - MW21	12/6/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/21/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	7/30/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - MW22	12/6/2010	**11,900**	**29,500**	**1,800**	**11,400**	<100	**522**	**463**	**122**	**15.3**
	4/20/2011	**8,690**	**20,600**	**1,870**	**11,070**	<1,250	<1,250	<1,250	**119**	NR
	8/29/2011	**3,630**	**23,500**	**3,530**	**20,200**	<1,000	**859 J**	<1,000	**188**	NR
	2/13/2013	Free Product								
	10/1/2013	**10,900**	**30,500**	**2,640**	**20,800**	<1,000	**1,270**	420J	**109**	NR
	7/29/2014	**9,910**	**25,800**	**1,970**	**15,850**	<1,250	**926J**	<1,250	**53.4**	NR
07960 - MW23	12/6/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	7/28/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - MW24	12/6/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**6.7**	<0.020	<5.0
	4/19/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	4.1 J	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	2.5 J	<0.019	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	7/28/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - MW25	12/6/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	7/28/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR

TABLE 3A
GROUNDWATER ANALYTICAL DATA[1]
CHEMICALS OF CONCERN
378 TRUCK STOP

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Naph-thalene (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Total Lead (ug/L)
RBSL[9]		5	1,000	700	10,000	40	25	5	0.05	15
07960 - MW26	12/6/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/19/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	7/28/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - MW27	12/6/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**6.4**	<0.020	<5.0
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	2.6 J	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	<5.0	<5.0	<5.0	<15.0	<5.0	2.3J	<5.0	<0.020	NR
	7/30/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - MW28	12/6/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/21/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	7/30/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - MW29	2/13/2013	**21.4**	<5.0	20.8	63.4	<5.0	<5.0	**16.7**	**0.052**	NR
	10/1/2013	**65.1**	<5.0	16.2	54.0	<5.0	10.4	**20.5**	<0.020	NR
	7/30/2014	**199.0**	8.4	29.6	105.6	1.7J	9.2	**65.2**	<0.020	NR
07960 - MW30	2/13/2013	**527**	17.7	12.2	270	<5.0	8.3	**21.7**	<0.020	NR
	10/1/2013	**602**	<25.0	24.2J	99.3	<25.0	**46.8**	**37.7**	**0.11**	NR
	7/29/2014	**700**	14.8J	14.1J	71.7J	<25	**69.9**	**33.6**	<0.020	NR
07960 - MW31	2/13/2013	**24.5**	26.2	14.7	109.6	<5.0	<5.0	**51.4**	<0.020	NR
	10/1/2013	**321**	54.8	60.4	194.0	<5.0	**48.4**	**45.6**	<0.020	NR
	7/28/2014	**394**	78.9	71.3	182.3	<12.5	**51.0**	**36.6**	<0.020	NR
07960 - TW1	10/18/2010	<5.0	<5.0	<5.0	<15.0	5.7	<5.0	**64.2**	<0.020	<5.0
	4/19/2011	<5.0	<5.0	<5.0	<15.0	5.0	<5.0	**48.9**	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	6.4	<5.0	**48.4**	<0.019	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	5.1	<5.0	**52.4**	<0.020	NR
	10/1/2013	<5.0	<5.0	<5.0	<15.0	6.6	<5.0	**76.1**	<0.020	NR
	7/29/2014	**7.0**	<5.0	1.8J	<15.0	5.9	<5.0	**60.5**	<0.020	NR
07960 - TW2	10/19/2010	<5.0	3.4 J	<5.0	2.8 J	<5.0	<5.0	4.2 J	<0.020	<5.0
	4/19/2011	<5.0	1.6 J	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	2/13/2013	<5.0	<5.0	<5.0	18.7	<5.0	<5.0	<5.0	<0.019	NR
	10/1/2013	<5.0	46.6	<5.0	<15.0	<5.0	<5.0	1.0J	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	2.2J	<0.020	NR
07960 - TW3	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/19/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	2/13/2013	<5.0	6.5	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR

TABLE 3A
GROUNDWATER ANALYTICAL DATA[1]
CHEMICALS OF CONCERN
378 TRUCK STOP

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Naph-thalene (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Total Lead (ug/L)
RBSL[9]		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**	**15**
07960 - TW4	10/19/2010	<5.0	<5.0	<5.0	<15.0	2.9 J	<5.0	<5.0	<0.019	<5.0
	4/19/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	2/13/2013	<5.0	34.9	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	10/1/2013	<5.0	14.7	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - TW5	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	1.7 J	<0.020	<5.0
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	<5.0	109	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - TW6	10/19/2010	1.5 J	<5.0	<5.0	<15.0	<5.0	<5.0	**5.1**	<0.020	<5.0
	4/19/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	3.6 J	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**8.9**	<0.019	NR
	2/13/2013	<5.0	33.3	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<5.0	7.3	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	7/28/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - TW7	10/19/2010	<5.0	1.9 J	<5.0	5.6 J	<5.0	<5.0	<5.0	<0.020	<5.0
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	9/30/2013	<5.0	12.5	<5.0	<15.0	<5.0	<5.0	<5.0	0.020	NR
	7/28/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - TW8	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	<5.0
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<5.0	5.4	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	7/28/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - TW9	12/6/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/19/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	7/28/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960 - TW10	12/2/2010	<5.0	<5.0	<5.0	<15.0	<5.0	2.9 J	<5.0	<0.020	NR
07960-WSW1	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	2.1 J	<0.020	NR
07960-WSW1 pre GAC	11/18/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	2.5 J	<0.019	NR
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	2.4	<0.019	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	3.1	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960-WSW1 post GAC	11/18/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	3.5J	<0.020	NR

TABLE 3A
GROUNDWATER ANALYTICAL DATA[1]
CHEMICALS OF CONCERN
378 TRUCK STOP

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Naph-thalene (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Total Lead (ug/L)
RBSL[2]		5	1,000	700	10,000	40	25	5	0.05	15
07960-WSW2	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	4/20/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	Not Sampled								
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960-WSW3	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	5/3/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960-WSW4	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	4/21/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.019	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960-WSW5	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	4/21/2011	Well pump not operational, could not collect sample								
	8/29/2011	Not Sampled								
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960-WSW6	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	4/21/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	0.88 J	<0.019	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	10/1/2013	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960-WSW7	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	4/21/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.019	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.019	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960-WSW8	10/19/2010	<5.0	<5.0	<5.0	<15.0	3.6 J	<5.0	**9.2**	<0.020	NR
07960-WSW8 pre GAC	11/12/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**7.5**	<0.020	NR
	4/21/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	2.9 J	<0.020	NR
	8/29/2011	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	1.6	<0.019	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR

TABLE 3A
GROUNDWATER ANALYTICAL DATA[1]
CHEMICALS OF CONCERN
378 TRUCK STOP

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Naph-thalene (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Total Lead (ug/L)
RBSL[9]		5	1,000	700	10,000	40	25	5	0.05	15
07960-WSW8 post GAC	11/12/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	4/21/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.019	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960-WSW9	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	4/21/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960-WSW10	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	4/21/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	8/29/2011	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	0.45 J	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	0.60J	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960-WSW11	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	4/21/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	0.45 J	<0.019	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	0.83J	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960-WSW12	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	4/21/2011	Well pump not operational, could not collect sample								
	8/29/2011	Well pump not operational, could not collect sample								
	2/13/2013	Well pump not operational, could not collect sample								
	9/30/2013	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	0.60J	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960-WSW13	10/19/2010	<5.0	<5.0	<5.0	<15.0	3.2 J	<5.0	<5.0	<0.020	NR
	4/21/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960-WSW14	10/19/2010	<5.0	<5.0	<5.0	<15.0	4.0 J	<5.0	<5.0	<0.020	NR
	4/21/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<1.0	<1.0	<1.0	<3.0	1.3	<1.0	<1.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR

TABLE 3A
GROUNDWATER ANALYTICAL DATA[1]
CHEMICALS OF CONCERN
378 TRUCK STOP

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Naph-thalene (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Total Lead (ug/L)
RBSL[9]		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**	**15**
07960-WSW15	10/19/2010	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	4/21/2011	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	8/29/2011	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<0.020	NR
	2/13/2013	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	9/30/2013	<1.0	<1.0	<1.0	<2.0	0.44J	<1.0	<1.0	<0.020	NR
	7/29/2014	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
07960-WSWX	2/13/2013	Well House Secured & Locked with Padlock								

Notes:

1. Analyses for BTEX compounds, MTBE, naphthalene, and 1,2-DCA by EPA Method 8260B; analyses for EDB by EPA Method 8011; analyses for total lead by EPA Method 6010.
2. Concentrations in bold face type exceeded the May 2001 Risk-Based Screening Level.
3. < = Less than the reporting limit specified in the laboratory report.
4. NA - Analyses not requested.
5. J - Estimated value below the laboratory reporting limit.
6. 07960 - TW10 did not produce enough water and was subsequently abandoned following sample collection.
7. 07960-WSW1 GAC installed on 11/18/10.
8. 07960-WSW8 GAC installed on 11/12/10.
9. Risk Based Action Levels are defined in the South Carolina Department of Health and Environmental Control (SCDHEC), Bureau of Land and Waste Management, Underground Storage Tank Program, May, 15, 2001, South Carolina Risk Based Corrective Action for Petroleum Releases.

TABLE 3B
GROUNDWATER ANALYTICAL DATA[1]
EIGHT OXYGENATES
378 TRUCK STOP

Well ID	Date Sampled	Ethanol (ug/L)	Ethyl tert-Butyl Ether (ETBE) (ug/L)	Di-isopropyl Ether (DIPE) (ug/L)	3,3- Dimethyl-1-Butanol (ug/L)	Tertiary Butyl Alcohol (TBA) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	tert-Amyl Alcohol (TAA) (ug/L)	tert-Butyl Formate (TBF) (ug/L)
Action Levels[8]		**10,000**	**47**	**150**	**NA**	**1,400**	**128**	**240**	**NA**
07960 - MW1	10/18/2010	**Free Product**							
	4/19/2011	<2,000	<100	<50.0	<1,000	<1,000	<100	<1,000	<500
	8/29/2011	<2,000	<100	<50.0	<1,000	<1,000	<100	**2,160**	<500
	2/13/2013	**Free Product**							
	10/1/2013	**Free Product**							
	7/30/2014	<2,000	<100	<50.0	<1,000	<1,000	<100	**2,500**	<500
07960 - MW2	10/19/2010	<200[2]	<10.0	<5.0	<100	254	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	336	<10.0	96.2 J	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	386	<10.0	87.1 J	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	307	<10.0	132	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	422	<10.0	202	<50.0
	7/30/2014	<200	<10.0	<5.0	<100	149	<10.0	140	<50.0
07960 - MW3	10/18/2010	<200	<10.0	55.7	<100	773	<10.0	**12,900[3]**	<50.0
	4/19/2011	<10,000	<500	<250	<5,000	<5,000	<500	**13,800**	<2,500
	8/29/2011	<10,000	<500	<250	<5,000	<5,000	<500	**10,300**	<2,500
	2/13/2013	<10,000	<500	<250	<5,000	<5,000	<500	**13,200**	<2,500
	10/1/2013	<10,000	<500	<250	<5,000	<5,000	<500	**15,500**	<2,500
	7/29/2014	<10,000	<500	<250	<5,000	<5,000	<500	**10,600**	<2,500
07960 - MW4	10/18/2010	<200	<10.0	<5.0	<100	<100	<10.0	199	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	141	<50.0
	7/30/2014	<200	<10.0	<5.0	<100	<100	<10.0	115	<50.0
07960 - MW5	10/18/2010	<200	<10.0	<5.0	<100	<100	<10.0	168	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/30/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - MW6	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	131	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - MW7	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	**2,650**	<50.0
	8/29/2011	<400	<20.0	<10.0	<200	225	<20.0	**672**	<100
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<400	<20.0	<10.0	<10.0	<200	<20.0	**6,780**	<100
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	**4,760J**	<50.0
07960 - MW8	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	**244**	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/30/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0

TABLE 3B
GROUNDWATER ANALYTICAL DATA[1]
EIGHT OXYGENATES
378 TRUCK STOP

Well ID	Date Sampled	Ethanol (ug/L)	Ethyl tert-Butyl Ether (ETBE) (ug/L)	Di-isopropyl Ether (DIPE) (ug/L)	3,3- Dimethyl-1-Butanol (ug/L)	Tertiary Butyl Alcohol (TBA) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	tert-Amyl Alcohol (TAA) (ug/L)	tert-Butyl Formate (TBF) (ug/L)
Action Levels[8]		**10,000**	**47**	**150**	**NA**	**1,400**	**128**	**240**	**NA**
07960 - MW9	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/19/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - MW10	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/19/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - MW11	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	**266**	<50.0
	7/30/2014	<200	<10.0	<5.0	<100	<100	<10.0	**357**	<50.0
07960 - MW12	10/19/2010	<200	<10.0	<5.0	<100	83.0 J[4]	<10.0	**267**	<50.0
	4/20/2011	<2,000	<100	<50.0	<1,000	<1,000	<100	<1,000	<500
	8/29/2011	<500	<25.0	4.8 J	<250	<250	<25.0	**615**	<125
	2/13/2013	Dry							
	10/1/2013	<800	<40.0	<20.0	<400	945	<40.0	**1,440**	<200
	7/29/2014	<4,000	<200	<100	<2,000	<2,000	<200	**4,100**	<1,000
07960 - MW13	10/19/2010	<400	<20.0	<10.0	<200	<200	<20.0	**1,260**	<100
	4/20/2011	<500	<25.0	<12.5	<250	<250	<25.0	**1,210**	<125
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	**1,040**	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	**340**	<50.0
	10/1/2013	<400	<20.0	<10.0	<200	147J	<20.0	**1,260**	<100
	7/29/2014	<1000	<50	<25.0	<500	<500	<50.0	**2,090**	<250
07960 - MW14	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/30/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - MW15	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - MW16	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	**360**	<50.0
	4/19/2011	<200	<10.0	<5.0	<100	<100	<10.0	**321**	<50.0
	8/29/2011	Not Requested							
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/28/2014	<200	<10.0	<5.0	<100	<100	<10.0	168	<50.0

TABLE 3B
GROUNDWATER ANALYTICAL DATA[1]
EIGHT OXYGENATES
378 TRUCK STOP

Well ID	Date Sampled	Ethanol (ug/L)	Ethyl tert-Butyl Ether (ETBE) (ug/L)	Di-isopropyl Ether (DIPE) (ug/L)	3,3- Dimethyl-1-Butanol (ug/L)	Tertiary Butyl Alcohol (TBA) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	tert-Amyl Alcohol (TAA) (ug/L)	tert-Butyl Formate (TBF) (ug/L)
Action Levels[8]		**10,000**	**47**	**150**	**NA**	**1,400**	**128**	**240**	**NA**
07960 - MW17	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/28/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - MW18	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - MW19	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/28/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - MW20	12/6/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	Dry							
	10/11/2003	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/30/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - MW21	12/6/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	**368**	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/30/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - MW22	12/6/2010	<4,000	<200	<100	<2,000	<2,000	<200	**9,730**	<1,000
	4/20/2011	<50,000	<2,500	<1,250	<25,000	<25,000	<2,500	<25,000	<12,500
	8/29/2011	<40,000	<2,000	<1,000	<20,000	<20,000	<2,000	<20,000	<10,000
	2/13/2013	Free Product							
	10/1/2013	<40,000	<2,000	<1,000	<20,000	<20,000	<2,000	<20,000	<10,000
	7/29/2014	<50,000	<2,500	<1,250	<25,000	<25,000	<2,500	<25,000	<12,500
07960 - MW23	12/6/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/28/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - MW24	12/6/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/19/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/28/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0

TABLE 3B
GROUNDWATER ANALYTICAL DATA[1]
EIGHT OXYGENATES
378 TRUCK STOP

Well ID	Date Sampled	Ethanol (ug/L)	Ethyl tert-Butyl Ether (ETBE) (ug/L)	Di-isopropyl Ether (DIPE) (ug/L)	3,3- Dimethyl-1-Butanol (ug/L)	Tertiary Butyl Alcohol (TBA) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	tert-Amyl Alcohol (TAA) (ug/L)	tert-Butyl Formate (TBF) (ug/L)
Action Levels[4]		**10,000**	**47**	**150**	**NA**	**1,400**	**128**	**240**	**NA**
07960 - MW25	12/6/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	136	<50.0
	7/28/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - MW26	12/6/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/19/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/28/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - MW27	12/6/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/30/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - MW28	12/6/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/30/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - MW29	10/1/2013	<200	<10.0	<5.0	<100	347	<10.0	**3,630**	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	408	<10.0	**3,620**	<50.0
	7/30/2014	<200	<10.0	2.3J	<100	147	<10.0	**4,050**	<50.0
07960 - MW30	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<1,000	<50.0	<25.0	<500	**618**	<50.0	**1,880**	<250
	7/29/2014	<1,000	<50.0	<25.0	<500	<500	<50.0	**1,690**	<250
07960 - MW31	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	69.8J	<10.0	**509**	<50.0
	7/28/2014	<500	<25.0	<12.5	<250	<250	<25.0	**678**	<125
07960 - TW1	10/18/2010	<200	<10.0	<5.0	<100	<100	<10.0	**1,180**	<50.0
	4/19/2011	<200	<10.0	1.8 J	<100	<100	<10.0	**1,000**	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	**871**	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	**899**	<50.0
	10/1/2013	<200	<10.0	2.3J	<100	111	<10.0	**1,040**	<50.0
	7/29/2014	<200	<10.0	1.8J	<100	<100	<10.0	**1,230**	<50.0
07960 - TW2	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	95.4 J	<50.0
	4/19/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	184	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	77.9J	<50.0
07960 - TW3	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/19/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	135	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0

TABLE 3B
GROUNDWATER ANALYTICAL DATA[1]
EIGHT OXYGENATES
378 TRUCK STOP

Well ID	Date Sampled	Ethanol (ug/L)	Ethyl tert-Butyl Ether (ETBE) (ug/L)	Di-isopropyl Ether (DIPE) (ug/L)	3,3- Dimethyl-1-Butanol (ug/L)	Tertiary Butyl Alcohol (TBA) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	tert-Amyl Alcohol (TAA) (ug/L)	tert-Butyl Formate (TBF) (ug/L)
Action Levels[8]		**10,000**	**47**	**150**	**NA**	**1,400**	**128**	**240**	**NA**
07960 - TW4	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/19/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - TW5	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	**368**	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - TW6	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/19/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/28/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - TW7	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/28/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - TW8	10/19/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/28/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - TW9	12/6/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/19/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/28/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960 - TW10	12/2/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	12/2/2010	Abandoned							
07960-WSW1 pre GAC6	11/18/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	8.3 J	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<1.0	<100	39.2J	<10.0	145	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960-WSW1 post GAC	11/18/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<1.0	<100	34.5J	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960-WSW2	12/8/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	Not Sampled							
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0

TABLE 3B
GROUNDWATER ANALYTICAL DATA[1]
EIGHT OXYGENATES
378 TRUCK STOP

Well ID	Date Sampled	Ethanol (ug/L)	Ethyl tert-Butyl Ether (ETBE) (ug/L)	Di-isopropyl Ether (DIPE) (ug/L)	3,3- Dimethyl-1-Butanol (ug/L)	Tertiary Butyl Alcohol (TBA) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	tert-Amyl Alcohol (TAA) (ug/L)	tert-Butyl Formate (TBF) (ug/L)
Action Levels[6]		**10,000**	**47**	**150**	**NA**	**1,400**	**128**	**240**	**NA**
07960-WSW3	12/8/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	5/3/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<1.0	<100	29.3J	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960-WSW4	12/8/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<1.0	<100	31.5J	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960-WSW5	12/8/2010	Not sampled for oxygenates. Well pump electric disconnected.							
	4/21/2011	Well pump not operational, could not collect sample							
	8/29/2011	Not Sampled							
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<1.0	<100	30.2J	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960-WSW6	12/8/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	10/1/2013	<200	<10.0	<1.0	<100	<100	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960-WSW7	12/8/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<1.0	<100	<100	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960-WSW8 pre GAC7	11/12/2010	<200	<10.0	<5.0	<100	<100	<10.0	**262**	<50.0
	4/21/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<200	<1.0	<100	<100	<10.0	142	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960-WSW8 post GAC	11/12/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<1.0	<100	<100	<10.0	132	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960-WSW9	12/8/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<1.0	<100	<100	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960-WSW10	12/8/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<1.0	<100	<100	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0

TABLE 3B
GROUNDWATER ANALYTICAL DATA[1]
EIGHT OXYGENATES
378 TRUCK STOP

Well ID	Date Sampled	Ethanol (ug/L)	Ethyl tert-Butyl Ether (ETBE) (ug/L)	Di-isopropyl Ether (DIPE) (ug/L)	3,3- Dimethyl-1-Butanol (ug/L)	Tertiary Butyl Alcohol (TBA) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	tert-Amyl Alcohol (TAA) (ug/L)	tert-Butyl Formate (TBF) (ug/L)
Action Levels[8]		**10,000**	**47**	**150**	**NA**	**1,400**	**128**	**240**	**NA**
07960-WSW11	12/8/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<1.0	<100	<100	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960-WSW12	12/8/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/2011	Well pump not operational, could not collect sample							
	8/29/2011	Well pump not operational, could not collect sample							
	2/13/2013	Well pump not operational, could not collect sample							
	9/30/2013	<200	<10.0	<1.0	<100	<100	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960-WSW13	12/8/2010	Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10.							
	4/21/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<1.0	<100	29.6J	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960-WSW14	12/8/2010	Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10.							
	4/21/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<1.0	<100	30.7J	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
07960-WSW15	12/8/2010	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	8/29/2011	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	2/13/2013	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	9/30/2013	<200	<10.0	<1.0	<100	30.0J	<10.0	<100	<50.0
	7/29/2014	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0

Notes:
1. Analyses for eight oxygenates by EPA Method 8260B.
2. < = Less than the reporting limit specified in the laboratory report.
3. Concentrations in bold face exceed the 2008 SCDHEC Action Level.
4. J = Estimated value below the laboratory reporting limit.
5. 07960 - TW10 did not produce enough water and was subsequently abandoned following sample collection.
6. 07960-WSW1 GAC installed on 11/18/10.
7. 07960-WSW8 GAC installed on 11/12/10.
8. The ALs are defined in SCDHEC, Department of Health and Environmental Control, Bureau of Land and Waste Management, Underground Storage Tank Program, October 22, 2008, Certification of the Oxygenate Compounds.

APPENDIX E

Disposal Manifest

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1

3. Generator's Name and Mailing Address: 378 Truck Stop, 731 Highway 378, Edgefield, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number	A. State Transporter's ID
HERR, INC.		B. Transporter 1 Phone 910-640-2607
7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID
		D. Transporter 2 Phone
9. Designated Facility Name and Site Address HERR, INC 303 S. MAULTSBY ST WHITEVILLE, NC 28472	10. US EPA ID Number NCR-000139816	E. State Facility's ID F. Facility's Phone 910-640-2607

GENERATOR

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON-REG. PETROLEUM CONTACT WATER		DM	139	GAL
b.				
c.				
d.				

G. Additonal Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year
Scott Ball		6	17	19

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
Scott Strickland	Scott Strickland	6	17	19

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this maifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year
Ryan Co		6	17	19

NON-HAZARDOUS WASTE

F-14 © 2002 LABELMASTER (800) 621-5808 www.labelmaster.com PRINTED ON RECYCLED PAPER USING SOYBEAN INK Rev. 3/95

APPENDIX F

Contractor Checklist

South Carolina Department of
Health and Environmental Control
378 Truck Stop; UST Permit No. 07960

Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?	X		
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X		
13	Have field screening results been described?	X		
14	Has a description of the soil sample collection and preservation been detailed?	X		
15	Has the field screening methodology and procedure been detailed?	X		
16	Has the monitoring well installation and development dates been provided?	X		
17	Has the method of well development been detailed?	X		
18	Has justification been provided for the locations of the monitoring wells?	X		
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	X		
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided?	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	X		
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?	X		
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)	X		
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the current and historical laboratory data been provided in tabular format?	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	X		
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)	X		
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)	X		
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

South Carolina Department of
Health and Environmental Control
378 Truck Stop; UST Permit No. 07960

Explanation for missing or incomplete information.

Meredith (OT)

GAC Unit Installation and Maintenance

Date: 7/29/19

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 730 Hwy 378 East, Edgefield, SC (Scurry Residence)

GAC Unit Serial Number: Tank #
Controller #

NEW INSTALLATION

Date Installation Completed: ____________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

UST 167 Tech DOCKETING

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* X Good

Condition of GAC Housing ______ In Need of Repair* X Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
■ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #59931).

GAC Unit Installation and Maintenance

Date: 7/29/19

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 724 Hwy 378 East, Edgefield, SC (Gordon Residence)

GAC Unit Serial Number: Tank #
Controller #

NEW INSTALLATION

Date Installation Completed: ____________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* X Good

Condition of GAC Housing ______ In Need of Repair* X Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
☐ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre, Pre GAC DUP, and Post GAC samples were collected as described in the approved Site Specific Work Plan dated June 20th, 2019. Please find the attached Pace Chain of Custody Record. (Pace CA #59931).

GAC Maintenance Report

Permit # 07960

Emerald Job # 276-A

Address	Serial #	Model #	Date Serviced	Condition of Unit	Samples Collected
730 Hwy 378 East, Edgefield, SC Scurry Residence			7/29/19	Needs Repairs ☐ Good ■	Pre-GAC ■ Dup-GAC ■ Mid-GAC ☐ Post-GAC ■
724 Hwy 378 East, Edgefield, SC Gordon Residence			7/29/19	Needs Repairs ☐ Good ■	Pre-GAC ■ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ■
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC

Notes:

Filter Disposal Method: Landfill

Service/Repairs:

Comments: Performed Carbon Filter change at Scurry & Gordon residences. Pre, and Post GAC samples were collected at the Gordon Residence with Pre, Pre Dup and Post GAC samples collected at the Scurry residence.

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	SCDHEC	Report To	A. Thrash	Attention:	
Address:	2600 BULL STREET	Copy To:		Company Name:	
	COLUMBIA, SC 29201			Address:	
Email To:	thrasham@dhec.sc.gov	Purchase Order No.:		Pace Quote Reference	
Phone: 803-898-0589	Fax	Project Name	378 Truck Stop	Pace Project Manager	~~T. CARTER~~ T. Ezell
Requested Due Date/TAT:		Project Number	SCDHEC SITE ID# 07960, PACE CA# 2 59531	Pace Profile #	

REGULATORY AGENCY

- [ ] NPDES
- [ ] GROUND WATER
- [ ] DRINKING WATER
- [x] UST
- [ ] RCRA
- [ ] OTHER

Site Location STATE: SC

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	07960 SCURRY PRE-GAC	WT	G			7/25/19	1240		9				9						x	x	x											
2	07960 SCURRY PRE GAC DUP	WT	G				1242		9				9						x	x	x											
3	07960 SCURRY POST GAC	WT	G				1245		9				9						x	x	x											
4	07960 GORDON PRE-GAC	WT	G				1335		9				9						x	x	x											
5	07960 GORDON POST GAC	WT	G				1340		9				9						x	x	x											
6	07960 FIELD BLANK	WT	G				1345		9				9						x	x	x											
7	07960 TRIP BLANK	WT	G			7/25/11			6				6						x	x	x											
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Lee Stogner	7/25/19	1730	[signature]	7/31/19	11:00				
Emerald Env										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lee Stogner

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 7/25/19

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

August 09, 2019

Robert Dunn
SCDHEC
2600 Bull St
Columbia, SC 29201

RE: Project: 378 Truck Stop 07960/59531
Pace Project No.: 92439364

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on July 31, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
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Enclosures

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CERTIFICATIONS

Project: 378 Truck Stop 07960/59531
Pace Project No.: 92439364

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: 378 Truck Stop 07960/59531
Pace Project No.: 92439364

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92439364001	07960 SCURRY PRE-GAC	Water	07/29/19 12:40	07/31/19 11:00
92439364002	07960 SCURRY PRE GAC DUP	Water	07/29/19 12:42	07/31/19 11:00
92439364003	07960 SCURRY POST GAC	Water	07/29/19 12:45	07/31/19 11:00
92439364004	07960 GORDON PRE-GAC	Water	07/29/19 13:35	07/31/19 11:00
92439364005	07960 GORDON POST GAC	Water	07/29/19 13:40	07/31/19 11:00
92439364006	07960 FIELD BLANK	Water	07/29/19 13:45	07/31/19 11:00
92439364007	07960 TRIP BLANK	Water	07/29/19 00:00	07/31/19 11:00

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SAMPLE ANALYTE COUNT

Project: 378 Truck Stop 07960/59531
Pace Project No.: 92439364

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92439364001	07960 SCURRY PRE-GAC	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	SAS	10	PASI-C
		EPA 8260B	SAS	11	PASI-C
92439364002	07960 SCURRY PRE GAC DUP	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	SAS	10	PASI-C
		EPA 8260B	SAS	11	PASI-C
92439364003	07960 SCURRY POST GAC	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	SAS	10	PASI-C
		EPA 8260B	SAS	11	PASI-C
92439364004	07960 GORDON PRE-GAC	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	SAS	10	PASI-C
		EPA 8260B	SAS	11	PASI-C
92439364005	07960 GORDON POST GAC	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	SAS	10	PASI-C
		EPA 8260B	SAS	11	PASI-C
92439364006	07960 FIELD BLANK	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	SAS	10	PASI-C
		EPA 8260B	SAS	11	PASI-C
92439364007	07960 TRIP BLANK	EPA 524.2	SAS	10	PASI-C
		EPA 8260B	SAS	11	PASI-C

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59531
Pace Project No.: 92439364

Sample: 07960 SCURRY PRE-GAC **Lab ID: 92439364001** Collected: 07/29/19 12:40 Received: 07/31/19 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/02/19 10.13	08/02/19 19:15	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	90	%	70-130		1	08/02/19 10:13	08/02/19 19:15	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	mg/L	0 00050	0.000092	1		08/09/19 09:59	71-43-2	
1,2-Dichloroethane	**0.0024**	mg/L	0.00050	0.00017	1		08/09/19 09:59	107-06-2	
Ethylbenzene	ND	mg/L	0 00050	0.000082	1		08/09/19 09:59	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.000084	1		08/09/19 09:59	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.000062	1		08/09/19 09:59	91-20-3	
Toluene	ND	mg/L	0.00050	0.00011	1		08/09/19 09:59	108-88-3	
m&p-Xylene	ND	mg/L	0.00050	0.00015	1		08/09/19 09:59	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00011	1		08/09/19 09:59	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	83	%	70-130		1		08/09/19 09:59	2199-69-1	
4-Bromofluorobenzene (S)	85	%	70-130		1		08/09/19 09:59	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**177**	ug/L	100	53.9	1		08/06/19 19:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		08/06/19 19:07	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		08/06/19 19:07	624-95-3	
tert-Butyl Alcohol	**34.6J**	ug/L	100	27.3	1		08/06/19 19 07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24 7	1		08/06/19 19:07	762-75-4	
Diisopropyl ether	**0.30J**	ug/L	1.0	0.22	1		08/06/19 19:07	108-20-3	
Ethanol	ND	ug/L	200	98 8	1		08/06/19 19·07	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		08/06/19 19:07	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/06/19 19:07	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		08/06/19 19:07	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		08/06/19 19:07	2037-26-5	

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ANALYTICAL RESULTS

Project. 378 Truck Stop 07960/59531
Pace Project No.: 92439364

Sample: 07960 SCURRY PRE GAC DUP **Lab ID: 92439364002** Collected: 07/29/19 12:42 Received: 07/31/19 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method. EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/02/19 10:13	08/02/19 19:33	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	89	%	70-130		1	08/02/19 10:13	08/02/19 19:33	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	mg/L	0.00050	0.000092	1		08/09/19 10:26	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00017	1		08/09/19 10:26	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.000082	1		08/09/19 10.26	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.000084	1		08/09/19 10:26	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.000062	1		08/09/19 10:26	91-20-3	
Toluene	ND	mg/L	0.00050	0.00011	1		08/09/19 10:26	108-88-3	
m&p-Xylene	ND	mg/L	0.00050	0.00015	1		08/09/19 10:26	179601-23-1	
o-Xylene	ND	mg/L	0 00050	0.00011	1		08/09/19 10:26	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	86	%	70-130		1		08/09/19 10:26	2199-69-1	
4-Bromofluorobenzene (S)	84	%	70-130		1		08/09/19 10:26	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**175**	ug/L	100	53.9	1		08/06/19 19.25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		08/06/19 19:25	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		08/06/19 19:25	624-95-3	
tert-Butyl Alcohol	**34.9J**	ug/L	100	27 3	1		08/06/19 19:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		08/06/19 19:25	762-75-4	
Diisopropyl ether	**0.31J**	ug/L	1.0	0.22	1		08/06/19 19:25	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		08/06/19 19:25	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		08/06/19 19:25	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		08/06/19 19:25	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		08/06/19 19:25	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		08/06/19 19:25	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59531
Pace Project No.: 92439364

Sample: 07960 SCURRY POST GAC **Lab ID: 92439364003** Collected: 07/29/19 12:45 Received: 07/31/19 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0 011	1	08/02/19 10:13	08/02/19 19:51	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	91	%	70-130		1	08/02/19 10:13	08/02/19 19:51	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	mg/L	0.00050	0.000092	1		08/09/19 10:52	71-43-2	
1,2-Dichloroethane	**0.00033J**	mg/L	0.00050	0.00017	1		08/09/19 10:52	107-06-2	
Ethylbenzene	ND	mg/L	0 00050	0.000082	1		08/09/19 10:52	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0 000084	1		08/09/19 10:52	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.000062	1		08/09/19 10:52	91-20-3	
Toluene	ND	mg/L	0.00050	0.00011	1		08/09/19 10:52	108-88-3	
m&p-Xylene	ND	mg/L	0.00050	0.00015	1		08/09/19 10:52	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00011	1		08/09/19 10:52	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	82	%	70-130		1		08/09/19 10:52	2199-69-1	
4-Bromofluorobenzene (S)	81	%	70-130		1		08/09/19 10:52	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**75.8J**	ug/L	100	53.9	1		08/06/19 19:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		08/06/19 19:43	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		08/06/19 19:43	624-95-3	
tert-Butyl Alcohol	**31.9J**	ug/L	100	27.3	1		08/06/19 19:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50 0	24.7	1		08/06/19 19:43	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		08/06/19 19:43	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		08/06/19 19:43	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		08/06/19 19:43	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/06/19 19:43	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		08/06/19 19:43	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/06/19 19:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59531
Pace Project No.: 92439364

Sample: 07960 GORDON PRE-GAC **Lab ID: 92439364004** Collected: 07/29/19 13:35 Received: 07/31/19 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/02/19 10:13	08/02/19 20:09	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	92	%	70-130		1	08/02/19 10:13	08/02/19 20:09	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	mg/L	0.00050	0.000092	1		08/09/19 11:18	71-43-2	
1,2-Dichloroethane	**0.0025**	mg/L	0.00050	0.00017	1		08/09/19 11:18	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.000082	1		08/09/19 11:18	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.000084	1		08/09/19 11:18	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.000062	1		08/09/19 11:18	91-20-3	
Toluene	ND	mg/L	0.00050	0.00011	1		08/09/19 11:18	108-88-3	
m&p-Xylene	ND	mg/L	0.00050	0.00015	1		08/09/19 11:18	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00011	1		08/09/19 11:18	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	83	%	70-130		1		08/09/19 11:18	2199-69-1	
4-Bromofluorobenzene (S)	83	%	70-130		1		08/09/19 11:18	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**70.2J**	ug/L	100	53.9	1		08/06/19 02:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		08/06/19 02:08	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		08/06/19 02:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		08/06/19 02:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		08/06/19 02:08	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		08/06/19 02:08	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		08/06/19 02:08	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		08/06/19 02:08	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		08/06/19 02:08	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		08/06/19 02:08	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		08/06/19 02:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59531
Pace Project No.: 92439364

Sample: 07960 GORDON POST GAC **Lab ID: 92439364005** Collected: 07/29/19 13:40 Received: 07/31/19 11.00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/02/19 10:13	08/02/19 20:27	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	90	%	70-130		1	08/02/19 10:13	08/02/19 20:27	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	mg/L	0.00050	0.000092	1		08/09/19 11:45	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00017	1		08/09/19 11:45	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.000082	1		08/09/19 11:45	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.000084	1		08/09/19 11:45	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.000062	1		08/09/19 11:45	91-20-3	
Toluene	ND	mg/L	0.00050	0.00011	1		08/09/19 11:45	108-88-3	
m&p-Xylene	ND	mg/L	0.00050	0.00015	1		08/09/19 11:45	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00011	1		08/09/19 11:45	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	82	%	70-130		1		08/09/19 11:45	2199-69-1	
4-Bromofluorobenzene (S)	80	%	70-130		1		08/09/19 11:45	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		08/06/19 17:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		08/06/19 17:02	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		08/06/19 17.02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		08/06/19 17.02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		08/06/19 17:02	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		08/06/19 17:02	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		08/06/19 17:02	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		08/06/19 17:02	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		08/06/19 17:02	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		08/06/19 17:02	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		08/06/19 17:02	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59531
Pace Project No.: 92439364

Sample: 07960 FIELD BLANK **Lab ID: 92439364006** Collected: 07/29/19 13:45 Received: 07/31/19 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/02/19 10:13	08/02/19 20:44	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	89	%	70-130		1	08/02/19 10:13	08/02/19 20:44	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	mg/L	0.00050	0.000092	1		08/09/19 12:11	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00017	1		08/09/19 12:11	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.000082	1		08/09/19 12:11	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.000084	1		08/09/19 12:11	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.000062	1		08/09/19 12:11	91-20-3	
Toluene	ND	mg/L	0.00050	0.00011	1		08/09/19 12:11	108-88-3	
m&p-Xylene	ND	mg/L	0.00050	0.00015	1		08/09/19 12:11	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00011	1		08/09/19 12:11	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	82	%	70-130		1		08/09/19 12:11	2199-69-1	
4-Bromofluorobenzene (S)	77	%	70-130		1		08/09/19 12:11	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		08/06/19 00:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		08/06/19 00:39	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		08/06/19 00:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		08/06/19 00:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		08/06/19 00:39	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		08/06/19 00:39	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		08/06/19 00:39	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		08/06/19 00:39	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/06/19 00:39	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		08/06/19 00:39	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		08/06/19 00:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59531
Pace Project No.: 92439364

Sample: 07960 TRIP BLANK **Lab ID: 92439364007** Collected: 07/29/19 00:00 Received: 07/31/19 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List	Analytical Method. EPA 524.2								
Benzene	ND	mg/L	0.00050	0.000092	1		08/09/19 12:37	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00017	1		08/09/19 12:37	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.000082	1		08/09/19 12:37	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.000084	1		08/09/19 12:37	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.000062	1		08/09/19 12:37	91-20-3	
Toluene	ND	mg/L	0.00050	0.00011	1		08/09/19 12:37	108-88-3	
m&p-Xylene	ND	mg/L	0.00050	0.00015	1		08/09/19 12:37	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00011	1		08/09/19 12:37	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	86	%	70-130		1		08/09/19 12:37	2199-69-1	
4-Bromofluorobenzene (S)	84	%	70-130		1		08/09/19 12:37	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		08/06/19 00:57	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		08/06/19 00:57	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		08/06/19 00:57	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		08/06/19 00:57	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		08/06/19 00:57	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		08/06/19 00:57	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		08/06/19 00:57	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		08/06/19 00:57	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		08/06/19 00:57	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		08/06/19 00:57	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		08/06/19 00:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59531
Pace Project No.: 92439364

QC Batch: 491354 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 92439364001, 92439364002, 92439364003, 92439364004, 92439364005, 92439364006, 92439364007

METHOD BLANK: 2650062 Matrix: Water
Associated Lab Samples: 92439364001, 92439364002, 92439364003, 92439364004, 92439364005, 92439364006, 92439364007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	mg/L	ND	0.00050	0.00017	08/09/19 09:33	
Benzene	mg/L	ND	0.00050	0.000092	08/09/19 09:33	
Ethylbenzene	mg/L	ND	0.00050	0.000082	08/09/19 09:33	
m&p-Xylene	mg/L	ND	0.00050	0.00015	08/09/19 09:33	
Methyl-tert-butyl ether	mg/L	ND	0.00050	0.000084	08/09/19 09:33	
Naphthalene	mg/L	ND	0.00050	0.000062	08/09/19 09:33	
o-Xylene	mg/L	ND	0.00050	0.00011	08/09/19 09:33	
Toluene	mg/L	ND	0.00050	0.00011	08/09/19 09:33	
1,2-Dichlorobenzene-d4 (S)	%	101	70-130		08/09/19 09:33	
4-Bromofluorobenzene (S)	%	106	70-130		08/09/19 09:33	

LABORATORY CONTROL SAMPLE: 2650063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	mg/L	0.02	0.022	111	70-130	
Benzene	mg/L	0.02	0.022	111	70-130	
Ethylbenzene	mg/L	0.02	0.021	107	70-130	
m&p-Xylene	mg/L	0.04	0.043	107	70-130	
Methyl-tert-butyl ether	mg/L	0.02	0.021	105	70-130	
Naphthalene	mg/L	0.02	0.021	104	70-130	
o-Xylene	mg/L	0.02	0.022	109	70-130	
Toluene	mg/L	0.02	0.021	103	70-130	
1,2-Dichlorobenzene-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			109	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59531
Pace Project No.: 92439364

QC Batch: 490454 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92439364004, 92439364006, 92439364007

METHOD BLANK: 2645921 Matrix: Water
Associated Lab Samples: 92439364004, 92439364006, 92439364007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	08/06/19 00:03	
Diisopropyl ether	ug/L	ND	1.0	0.22	08/06/19 00:03	
Ethanol	ug/L	ND	200	98.8	08/06/19 00:03	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	08/06/19 00:03	
tert-Amyl Alcohol	ug/L	ND	100	53.9	08/06/19 00:03	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	08/06/19 00:03	
tert-Butyl Alcohol	ug/L	ND	100	27 3	08/06/19 00 03	
tert-Butyl Formate	ug/L	ND	50.0	24.7	08/06/19 00:03	
1,2-Dichloroethane-d4 (S)	%	99	70-130		08/06/19 00 03	
4-Bromofluorobenzene (S)	%	100	70-130		08/06/19 00 03	
Toluene-d8 (S)	%	101	70-130		08/06/19 00:03	

LABORATORY CONTROL SAMPLE: 2645922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	977	98	70-130	
Diisopropyl ether	ug/L	50	53.5	107	70-130	
Ethanol	ug/L	2000	2340	117	70-130	
Ethyl-tert-butyl ether	ug/L	100	99.4	99	70-130	
tert-Amyl Alcohol	ug/L	1000	1060	106	70-130	
tert-Amylmethyl ether	ug/L	100	108	108	70-130	
tert-Butyl Alcohol	ug/L	500	485	97	70-130	
tert-Butyl Formate	ug/L	400	440	110	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2645923 2645924

Parameter	Units	92439605021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	433	418	108	105	70-130	3	30	
Diisopropyl ether	ug/L	ND	20	20	21.2	20.4	106	102	70-130	4	30	
Ethanol	ug/L	ND	800	800	883	884	110	110	70-130	0	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	40.5	38.2	101	96	70-130	6	30	
tert-Amyl Alcohol	ug/L	ND	400	400	388	378	97	95	70-130	3	30	
tert-Amylmethyl ether	ug/L	ND	40	40	42.5	40.5	106	101	70-130	5	30	
tert-Butyl Alcohol	ug/L	ND	200	200	246	255	123	127	70-130	3	30	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59531
Pace Project No.. 92439364

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2645923 2645924

Parameter	Units	92439605021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
tert-Butyl Formate	ug/L	ND	160	160	101	71.5	63	45	70-130	34	30	P5,R1
1,2-Dichloroethane-d4 (S)	%						100	96	70-130			
4-Bromofluorobenzene (S)	%						97	102	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59531
Pace Project No.: 92439364

QC Batch: 490457 — Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B — Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92439364001, 92439364002, 92439364003, 92439364005

METHOD BLANK: 2645929 — Matrix: Water
Associated Lab Samples: 92439364001, 92439364002, 92439364003, 92439364005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	08/06/19 16:26	
Diisopropyl ether	ug/L	ND	1.0	0.22	08/06/19 16:26	
Ethanol	ug/L	ND	200	98.8	08/06/19 16:26	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	08/06/19 16:26	
tert-Amyl Alcohol	ug/L	ND	100	53.9	08/06/19 16:26	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	08/06/19 16:26	
tert-Butyl Alcohol	ug/L	ND	100	27.3	08/06/19 16:26	
tert-Butyl Formate	ug/L	ND	50.0	24.7	08/06/19 16:26	
1,2-Dichloroethane-d4 (S)	%	101	70-130		08/06/19 16:26	
4-Bromofluorobenzene (S)	%	96	70-130		08/06/19 16:26	
Toluene-d8 (S)	%	102	70-130		08/06/19 16:26	

LABORATORY CONTROL SAMPLE: 2645930

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	962	96	70-130	
Diisopropyl ether	ug/L	50	49.9	100	70-130	
Ethanol	ug/L	2000	1830	91	70-130	
Ethyl-tert-butyl ether	ug/L	100	91.6	92	70-130	
tert-Amyl Alcohol	ug/L	1000	880	88	70-130	
tert-Amylmethyl ether	ug/L	100	98.3	98	70-130	
tert-Butyl Alcohol	ug/L	500	454	91	70-130	
tert-Butyl Formate	ug/L	400	405	101	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 2645932

Parameter	Units	92439614002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	371	93	70-130	
Diisopropyl ether	ug/L	ND	20	20.7	103	70-130	
Ethanol	ug/L	ND	800	905	113	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	39.1	98	70-130	
tert-Amyl Alcohol	ug/L	ND	400	423	106	70-130	
tert-Amylmethyl ether	ug/L	ND	40	41.3	103	70-130	
tert-Butyl Alcohol	ug/L	ND	200	277	139	70-130	
tert-Butyl Formate	ug/L	ND	160	90.7	57	70-130	P5

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59531
Pace Project No.: 92439364

MATRIX SPIKE SAMPLE: 2645932

Parameter	Units	92439614002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				95	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				103	70-130	

SAMPLE DUPLICATE: 2645931

Parameter	Units	92439614001 Result	Dup Result	RPD	Max RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	103	103			
4-Bromofluorobenzene (S)	%	98	96			
Toluene-d8 (S)	%	100	102			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59531
Pace Project No.: 92439364

QC Batch: 490006 — Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 — Analysis Description: GCS 504 EDB DBCP
Associated Lab Samples: 92439364001, 92439364002, 92439364003, 92439364004, 92439364005, 92439364006

METHOD BLANK: 2643771 — Matrix: Water
Associated Lab Samples: 92439364001, 92439364002, 92439364003, 92439364004, 92439364005, 92439364006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	08/02/19 13:37	
1-Chloro-2-bromopropane (S)	%	95	70-130		08/02/19 13:37	

LABORATORY CONTROL SAMPLE & LCSD: 2643772 — 2643773

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.24	0.25	99	99	70-130	1	20	
1-Chloro-2-bromopropane (S)	%				95	97	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2643775 — 2643776

Parameter	Units	92439359002 Result	MS Spike Conc	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.24	0.24	98	98	65-135	0	20	
1-Chloro-2-bromopropane (S)	%						94	95	70-130			

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QUALIFIERS

Project: 378 Truck Stop 07960/59531
Pace Project No.: 92439364

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270 The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 Truck Stop 07960/59531
Pace Project No.: 92439364

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92439364001	07960 SCURRY PRE-GAC	EPA 504.1	490006	EPA 504.1	490067
92439364002	07960 SCURRY PRE GAC DUP	EPA 504.1	490006	EPA 504.1	490067
92439364003	07960 SCURRY POST GAC	EPA 504.1	490006	EPA 504.1	490067
92439364004	07960 GORDON PRE-GAC	EPA 504.1	490006	EPA 504.1	490067
92439364005	07960 GORDON POST GAC	EPA 504.1	490006	EPA 504.1	490067
92439364006	07960 FIELD BLANK	EPA 504 1	490006	EPA 504.1	490067
92439364001	07960 SCURRY PRE-GAC	EPA 524.2	491354		
92439364002	07960 SCURRY PRE GAC DUP	EPA 524.2	491354		
92439364003	07960 SCURRY POST GAC	EPA 524.2	491354		
92439364004	07960 GORDON PRE-GAC	EPA 524.2	491354		
92439364005	07960 GORDON POST GAC	EPA 524.2	491354		
92439364006	07960 FIELD BLANK	EPA 524.2	491354		
92439364007	07960 TRIP BLANK	EPA 524.2	491354		
92439364001	07960 SCURRY PRE-GAC	EPA 8260B	490457		
92439364002	07960 SCURRY PRE GAC DUP	EPA 8260B	490457		
92439364003	07960 SCURRY POST GAC	EPA 8260B	490457		
92439364004	07960 GORDON PRE-GAC	EPA 8260B	490454		
92439364005	07960 GORDON POST GAC	EPA 8260B	490457		
92439364006	07960 FIELD BLANK	EPA 8260B	490454		
92439364007	07960 TRIP BLANK	EPA 8260B	490454		

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Pace Analytical	Document Name: **Sample Condition Upon Receipt(SCUR)**	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: **F-CAR-CS-033-Rev.06**	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☑ **Raleigh** ☐ **Mechanicsville** ☐

Sample Condition Upon Receipt

Client Name: XDUEC

Project # **WO# : 92439364**

92439364

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: EF 7/31/19

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 92T048 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp (°C): 2.1 **Correction Factor: Add/Subtract (°C)** 0.0

Cooler Temp Corrected (°C): 2.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☑ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☑ No
Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9. [illegible]
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☑ Yes	☐ No	☐ N/A	10. Headspace in samples: Gordon
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY **Field Data Required?** ☐ Yes ☑ No

Pre GAC (2); Field BLANK (3); Trip blank (4)

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: ____________ Date/Time: ____________

Project Manager SCURF Review: AMB **Date:** 8-1-19

Project Manager SRF Review: AMB **Date:** 8-1-19

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottle**

Project # WO#: 92439364

PM: AMB Due Date: 08/09/19

CLIENT: 92-SCDHEC

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6	3											
2																6	3											
3																6	3											
4																6	3											
5																6	5											
6																6	5											
7																4												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	SCDHEC
Address:	2600 BULL STREET, COLUMBIA, SC 29201
Email To:	thrasham@dhec.sc.gov
Phone:	803-898-0589 Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	A. Thrash
Copy To:	
Purchase Order No.:	
Project Name:	378 Truck Stop
Project Number:	SCDHEC SITE ID# 07960, PACE CA# 2 59531

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	~~T. CARTER~~ T. Ezell
Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☑ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Requested Analysis Filtered (Y/N)

Section D Required Client Information — Valid Matrix Codes: DRINKING WATER DW, WATER WT, WASTE WATER WW, PRODUCT P, SOIL/SOLID SL, OIL OL, WIPE WP, AIR AR, OTHER OT, TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Pace Project No./ Lab I.D.: 92439364

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	07960 SCURRY PRE-GAC	WT	G			7/23/19	1240		9				9						x	x	x		001
2	07960 SCURRY PRE GAC DUP	WT	G				1242		9				9						x	x	x		002
3	07960 SCURRY POST GAC	WT	G				1245		9				9						x	x	x		003
4	07960 GORDON PRE-GAC	WT	G				1335		9				9						x	x	x		004
5	07960 GORDON POST GAC	WT	G				1340		9				9						x	x	x		005
6	07960 FIELD BLANK	WT	G				1345		9				9						x	x	x		006
7	07960 TRIP BLANK	WT	G			7/23/19			6				6						x	x	x		007
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Lee Stoyner	7/23/19	1750	[signature]	7/24/19	11:00				
	[signature] Pace	7/31/19	15:58	[signature] Pace	7/31/19	15:58	2.1	Y	N	Y
Emailed Inv										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lee Stoyner

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7/23/19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

GAC Unit Installation and Maintenance

UST
OCT 22 2019
PROGRAM

UST
168 Ciel
DOCKETING

Date: 9/23/19

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 730 Hwy 378 East, Edgefield, SC (Scurry Residence)

GAC Unit Serial Number: Tank #
Controller #

NEW INSTALLATION

Date Installation Completed: ____________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* X Good

Condition of GAC Housing ______ In Need of Repair* X Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
■ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #59931).

GAC Unit Installation and Maintenance

Date: 9/23/19

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 724 Hwy 378 East, Edgefield, SC (Gordon Residence)

GAC Unit Serial Number: Tank #
Controller #

NEW INSTALLATION

Date Installation Completed: ______________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* __X__ Good

Condition of GAC Housing ______ In Need of Repair* __X__ Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
☐ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre, Pre GAC DUP, and Post GAC samples were collected as described in the approved Site Specific Work Plan dated June 20th, 2019. Please find the attached Pace Chain of Custody Record. (Pace CA #59931).

GAC Maintenance Report

Permit # 07960

Emerald Job # 276-B

Address	Serial #	Model #	Date Serviced	Condition of Unit	Samples Collected
730 Hwy 378 East, Edgefield, SC Scurry Residence			9/23/19	Needs Repairs ☐ Good ■	Pre-GAC ■ Dup-GAC ■ Mid-GAC ☐ Post-GAC ■
724 Hwy 378 East, Edgefield, SC Gordon Residence			9/23/19	Needs Repairs ☐ Good ■	Pre-GAC ■ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ■
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC

Notes:

Filter Disposal Method: Landfill

Service/Repairs:

Comments: Performed Carbon Filter change at Scurry & Gordon residences. Pre, and Post GAC samples were collected at the Gordon Residence with Pre, Pre Dup and Post GAC samples collected at the Scurry residence.

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Huntersville, NC 28078
(704)875-9092

October 04, 2019

Robert Dunn
SCDHEC
2600 Bull St
Columbia, SC 29201

UST
OCT 0 9 2019
PROGRAM

RE: Project: 378 TRUCK STOP 07960/59104
Pace Project No.: 92447133

Dear Robert Dunn:
Enclosed are the analytical results for sample(s) received by the laboratory on September 25, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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CERTIFICATIONS

Project: 378 TRUCK STOP 07960/59104
Pace Project No.: 92447133

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: 378 TRUCK STOP 07960/59104
Pace Project No.: 92447133

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92447133001	07960 SCURRY PRE-GAC	Water	09/23/19 12:20	09/25/19 16:54
92447133002	07960 SCURRY PRE GAC DUP	Water	09/23/19 12.23	09/25/19 16:54
92447133003	07960 SCURRY POST GAC	Water	09/23/19 12:30	09/25/19 16:54
92447133004	07960 GORDON PRE-GAC	Water	09/23/19 11:20	09/25/19 16:54
92447133005	07960 GORDON POST GAC	Water	09/23/19 11:25	09/25/19 16:54
92447133006	07960 FIELD BLANK	Water	09/23/19 12:35	09/25/19 16:54
92447133007	07960 TRIP BLANK	Water	09/23/19 00:00	09/25/19 16:54

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SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP 07960/59104
Pace Project No.. 92447133

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92447133001	07960 SCURRY PRE-GAC	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260B	DLK	11	PASI-C
92447133002	07960 SCURRY PRE GAC DUP	EPA 504 1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260B	DLK	11	PASI-C
92447133003	07960 SCURRY POST GAC	EPA 504.1	BAJ	2	PASI-C
		EPA 524 2	GAW	10	PASI-C
		EPA 8260B	DLK	11	PASI-C
92447133004	07960 GORDON PRE-GAC	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260B	DLK	11	PASI-C
92447133005	07960 GORDON POST GAC	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260B	DLK	11	PASI-C
92447133006	07960 FIELD BLANK	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260B	DLK	11	PASI-C
92447133007	07960 TRIP BLANK	EPA 524 2	GAW	10	PASI-C
		EPA 8260B	DLK	11	PASI-C

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960/59104
Pace Project No.. 92447133

Sample: 07960 SCURRY PRE-GAC **Lab ID: 92447133001** Collected. 09/23/19 12:20 Received: 09/25/19 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504 1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/01/19 11:29	10/02/19 23:34	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	97	%	70-130		1	10/01/19 11:29	10/02/19 23:34	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		10/01/19 13:54	71-43-2	
1,2-Dichloroethane	**4.0**	ug/L	0.50	0.13	1		10/01/19 13:54	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		10/01/19 13:54	100-41-4	
Methyl-tert-butyl ether	**0.25J**	ug/L	0.50	0.094	1		10/01/19 13:54	1634-04-4	C8
Naphthalene	ND	ug/L	0.50	0.31	1		10/01/19 13:54	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		10/01/19 13:54	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0.46	1		10/01/19 13:54	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		10/01/19 13:54	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		10/01/19 13:54	2199-69-1	
4-Bromofluorobenzene (S)	88	%	70-130		1		10/01/19 13:54	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**121**	ug/L	100	53.9	1		10/04/19 06:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		10/04/19 06:23	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		10/04/19 06:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		10/04/19 06:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		10/04/19 06:23	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		10/04/19 06:23	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		10/04/19 06:23	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		10/04/19 06:23	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		10/04/19 06:23	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		10/04/19 06:23	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		10/04/19 06:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960/59104
Pace Project No.. 92447133

Sample: 07960 SCURRY PRE GAC DUP **Lab ID: 92447133002** Collected: 09/23/19 12:23 Received: 09/25/19 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0 011	1	10/01/19 11:29	10/02/19 23:56	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	90	%	70-130		1	10/01/19 11:29	10/02/19 23:56	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		10/01/19 14 20	71-43-2	
1,2-Dichloroethane	**4.0**	ug/L	0.50	0.13	1		10/01/19 14:20	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		10/01/19 14.20	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		10/01/19 14:20	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		10/01/19 14:20	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		10/01/19 14:20	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0.46	1		10/01/19 14:20	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		10/01/19 14:20	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		10/01/19 14:20	2199-69-1	
4-Bromofluorobenzene (S)	93	%	70-130		1		10/01/19 14:20	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**129**	ug/L	100	53.9	1		10/04/19 06:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		10/04/19 06:41	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		10/04/19 06:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27 3	1		10/04/19 06:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		10/04/19 06 41	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		10/04/19 06:41	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		10/04/19 06:41	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3 7	1		10/04/19 06:41	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		10/04/19 06:41	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		10/04/19 06.41	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/04/19 06:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960/59104
Pace Project No.: 92447133

Sample: 07960 SCURRY POST GAC **Lab ID: 92447133003** Collected: 09/23/19 12:30 Received: 09/25/19 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504 1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	10/01/19 11:29	10/03/19 00:30	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	86	%	70-130		1	10/01/19 11:29	10/03/19 00:30	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		10/01/19 14:46	71-43-2	
1,2-Dichloroethane	**4.0**	ug/L	0.50	0.13	1		10/01/19 14.46	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		10/01/19 14:46	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		10/01/19 14:46	1634-04-4	
Naphthalene	ND	ug/L	0 50	0.31	1		10/01/19 14:46	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		10/01/19 14:46	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0.46	1		10/01/19 14:46	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		10/01/19 14:46	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	91	%	70-130		1		10/01/19 14:46	2199-69-1	
4-Bromofluorobenzene (S)	88	%	70-130		1		10/01/19 14:46	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**122**	ug/L	100	53.9	1		10/04/19 07:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		10/04/19 07:00	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		10/04/19 07:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		10/04/19 07:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		10/04/19 07:00	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		10/04/19 07:00	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		10/04/19 07:00	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		10/04/19 07:00	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		10/04/19 07:00	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		10/04/19 07:00	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		10/04/19 07:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960/59104
Pace Project No.: 92447133

Sample: 07960 GORDON PRE-GAC **Lab ID: 92447133004** Collected: 09/23/19 11:20 Received: 09/25/19 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	10/01/19 11.29	10/03/19 00:41	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	84	%	70-130		1	10/01/19 11:29	10/03/19 00:41	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		10/01/19 15:11	71-43-2	
1,2-Dichloroethane	**2.3**	ug/L	0.50	0.13	1		10/01/19 15:11	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		10/01/19 15:11	100-41-4	
Methyl-tert-butyl ether	**0.26J**	ug/L	0.50	0.094	1		10/01/19 15:11	1634-04-4	
Naphthalene	ND	ug/L	0 50	0 31	1		10/01/19 15:11	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		10/01/19 15:11	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0.46	1		10/01/19 15:11	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		10/01/19 15:11	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		10/01/19 15:11	2199-69-1	
4-Bromofluorobenzene (S)	90	%	70-130		1		10/01/19 15:11	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		10/04/19 07:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		10/04/19 07:18	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		10/04/19 07:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		10/04/19 07 18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		10/04/19 07:18	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		10/04/19 07:18	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		10/04/19 07:18	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		10/04/19 07:18	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		10/04/19 07:18	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		10/04/19 07 18	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/04/19 07:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960/59104
Pace Project No.: 92447133

Sample: 07960 GORDON POST GAC **Lab ID: 92447133005** Collected: 09/23/19 11:25 Received: 09/25/19 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0 019	0.011	1	10/01/19 11:29	10/03/19 00:52	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	77	%	70-130		1	10/01/19 11:29	10/03/19 00:52	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		10/01/19 15:37	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		10/01/19 15:37	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		10/01/19 15:37	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		10/01/19 15:37	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		10/01/19 15:37	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		10/01/19 15:37	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0 46	1		10/01/19 15:37	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		10/01/19 15:37	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		10/01/19 15:37	2199-69-1	
4-Bromofluorobenzene (S)	91	%	70-130		1		10/01/19 15:37	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		10/04/19 07:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		10/04/19 07:37	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		10/04/19 07:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		10/04/19 07:37	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		10/04/19 07:37	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		10/04/19 07:37	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		10/04/19 07:37	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		10/04/19 07:37	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		10/04/19 07:37	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		10/04/19 07:37	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/04/19 07:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960/59104
Pace Project No.: 92447133

Sample: 07960 FIELD BLANK **Lab ID: 92447133006** Collected: 09/23/19 12 35 Received: 09/25/19 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	10/01/19 11:29	10/03/19 01:04	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	79	%	70-130		1	10/01/19 11:29	10/03/19 01:04	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		10/01/19 16:03	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		10/01/19 16:03	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		10/01/19 16.03	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		10/01/19 16:03	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		10/01/19 16.03	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		10/01/19 16:03	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0.46	1		10/01/19 16:03	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		10/01/19 16:03	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		10/01/19 16:03	2199-69-1	
4-Bromofluorobenzene (S)	91	%	70-130		1		10/01/19 16:03	460-00-4	
8260 MSV Low Level SC	Analytical Method. EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		10/04/19 02:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		10/04/19 02:05	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		10/04/19 02:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		10/04/19 02:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		10/04/19 02:05	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		10/04/19 02:05	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		10/04/19 02 05	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		10/04/19 02.05	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		10/04/19 02:05	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		10/04/19 02:05	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/04/19 02:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960/59104
Pace Project No.: 92447133

Sample: 07960 TRIP BLANK **Lab ID: 92447133007** Collected: 09/23/19 00:00 Received: 09/25/19 16:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		10/01/19 03:30	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		10/01/19 03:30	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		10/01/19 03:30	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0 50	0.094	1		10/01/19 03:30	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		10/01/19 03:30	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		10/01/19 03:30	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0.46	1		10/01/19 03:30	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		10/01/19 03:30	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		10/01/19 03:30	2199-69-1	
4-Bromofluorobenzene (S)	95	%	70-130		1		10/01/19 03:30	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		10/04/19 02.23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		10/04/19 02.23	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62 0	1		10/04/19 02:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		10/04/19 02:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24 7	1		10/04/19 02:23	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		10/04/19 02:23	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		10/04/19 02:23	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		10/04/19 02:23	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		10/04/19 02:23	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		10/04/19 02:23	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/04/19 02:23	2037-26-5	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960/59104
Pace Project No 92447133

QC Batch: 500676 — Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 — Analysis Description: 524.2 MSV
Associated Lab Samples: 92447133007

METHOD BLANK: 2693655 — Matrix: Water
Associated Lab Samples: 92447133007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.13	09/30/19 23:38	
Benzene	ug/L	ND	0.50	0.25	09/30/19 23:38	
Ethylbenzene	ug/L	ND	0.50	0.26	09/30/19 23:38	
m&p-Xylene	ug/L	ND	0.50	0.46	09/30/19 23:38	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.094	09/30/19 23:38	
Naphthalene	ug/L	ND	0.50	0.31	09/30/19 23:38	
o-Xylene	ug/L	ND	0.50	0.25	09/30/19 23:38	
Toluene	ug/L	ND	0.50	0.24	09/30/19 23:38	
1,2-Dichlorobenzene-d4 (S)	%	106	70-130		09/30/19 23:38	
4-Bromofluorobenzene (S)	%	99	70-130		09/30/19 23:38	

LABORATORY CONTROL SAMPLE: 2693656

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	17.1	86	70-130	
Benzene	ug/L	20	17.0	85	70-130	
Ethylbenzene	ug/L	20	16.9	84	70-130	
m&p-Xylene	ug/L	40	34.7	87	70-130	
Methyl-tert-butyl ether	ug/L	20	18.7	94	70-130	
Naphthalene	ug/L	20	22.3	112	70-130	
o-Xylene	ug/L	20	17.1	85	70-130	
Toluene	ug/L	20	16.8	84	70-130	
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960/59104
Pace Project No 92447133

QC Batch: 500901 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 92447133001, 92447133002, 92447133003, 92447133004, 92447133005, 92447133006

METHOD BLANK: 2694388 Matrix: Water
Associated Lab Samples: 92447133001, 92447133002, 92447133003, 92447133004, 92447133005, 92447133006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.13	10/01/19 11:19	
Benzene	ug/L	ND	0.50	0.25	10/01/19 11:19	
Ethylbenzene	ug/L	ND	0.50	0.26	10/01/19 11:19	
m&p-Xylene	ug/L	ND	0.50	0.46	10/01/19 11:19	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.094	10/01/19 11:19	
Naphthalene	ug/L	ND	0.50	0.31	10/01/19 11:19	
o-Xylene	ug/L	ND	0.50	0.25	10/01/19 11.19	
Toluene	ug/L	ND	0.50	0.24	10/01/19 11:19	
1,2-Dichlorobenzene-d4 (S)	%	93	70-130		10/01/19 11:19	
4-Bromofluorobenzene (S)	%	88	70-130		10/01/19 11:19	

LABORATORY CONTROL SAMPLE: 2694389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	16.6	83	70-130	
Benzene	ug/L	20	17.0	85	70-130	
Ethylbenzene	ug/L	20	16.6	83	70-130	
m&p-Xylene	ug/L	40	32.8	82	70-130	
Methyl-tert-butyl ether	ug/L	20	17.3	86	70-130	
Naphthalene	ug/L	20	17.0	85	70-130	
o-Xylene	ug/L	20	16.5	83	70-130	
Toluene	ug/L	20	16.6	83	70-130	
1,2-Dichlorobenzene-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			90	70-130	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960/59104
Pace Project No.: 92447133

QC Batch: 501228 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92447133001, 92447133002, 92447133003, 92447133004, 92447133005, 92447133006, 92447133007

METHOD BLANK: 2695761 Matrix: Water
Associated Lab Samples: 92447133001, 92447133002, 92447133003, 92447133004, 92447133005, 92447133006, 92447133007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	10/04/19 00:51	
Diisopropyl ether	ug/L	ND	1.0	0.22	10/04/19 00:51	
Ethanol	ug/L	ND	200	98 8	10/04/19 00:51	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	10/04/19 00:51	
tert-Amyl Alcohol	ug/L	ND	100	53 9	10/04/19 00:51	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	10/04/19 00:51	
tert-Butyl Alcohol	ug/L	ND	100	27 3	10/04/19 00:51	
tert-Butyl Formate	ug/L	ND	50.0	24.7	10/04/19 00:51	
1,2-Dichloroethane-d4 (S)	%	97	70-130		10/04/19 00:51	
4-Bromofluorobenzene (S)	%	107	70-130		10/04/19 00:51	
Toluene-d8 (S)	%	99	70-130		10/04/19 00:51	

LABORATORY CONTROL SAMPLE: 2695762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1040	104	70-130	
Diisopropyl ether	ug/L	50	50.8	102	70-130	
Ethanol	ug/L	2000	1830	91	70-130	
Ethyl-tert-butyl ether	ug/L	100	97.6	98	70-130	
tert-Amyl Alcohol	ug/L	1000	909	91	70-130	
tert-Amylmethyl ether	ug/L	100	103	103	70-130	
tert-Butyl Alcohol	ug/L	500	404	81	70-130	
tert-Butyl Formate	ug/L	400	467	117	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 2695764

Parameter	Units	92447124002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	364	91	70-130	
Diisopropyl ether	ug/L	ND	20	20.8	104	70-130	
Ethanol	ug/L	ND	800	782	98	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	38.9	97	70-130	
tert-Amyl Alcohol	ug/L	ND	400	358	90	70-130	
tert-Amylmethyl ether	ug/L	ND	40	39.7	99	70-130	
tert-Butyl Alcohol	ug/L	ND	200	276	138	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960/59104
Pace Project No.: 92447133

MATRIX SPIKE SAMPLE: 2695764

Parameter	Units	92447124002 Result	Spike Conc	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2695763

Parameter	Units	92447124001 Result	Dup Result	RPD	Max RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	5.9	6.2	5	30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	8.3J	8.7J		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	97	98			
4-Bromofluorobenzene (S)	%	106	106			
Toluene-d8 (S)	%	99	98			

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960/59104
Pace Project No.: 92447133

QC Batch 500925 Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP
Associated Lab Samples: 92447133001, 92447133002, 92447133003, 92447133004, 92447133005, 92447133006

METHOD BLANK: 2694509 Matrix: Water
Associated Lab Samples: 92447133001, 92447133002, 92447133003, 92447133004, 92447133005, 92447133006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	10/02/19 22:26	
1-Chloro-2-bromopropane (S)	%	87	70-130		10/02/19 22:26	

LABORATORY CONTROL SAMPLE & LCSD: 2694510 2694511

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.21	0.22	85	86	70-130	3	20	
1-Chloro-2-bromopropane (S)	%				84	85	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2694513 2694514

Parameter	Units	92447133002 Result	MS Spike Conc	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.24	0.24	0.21	0.22	88	93	65-135	6	20	
1-Chloro-2-bromopropane (S)	%						83	93	70-130			

SAMPLE DUPLICATE: 2694512

Parameter	Units	92447133001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	97	86			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 378 TRUCK STOP 07960/59104
Pace Project No.: 92447133

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

C8	Result may be biased high due to carryover from previously analyzed sample.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 TRUCK STOP 07960/59104
Pace Project No.: 92447133

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92447133001	07960 SCURRY PRE-GAC	EPA 504.1	500925	EPA 504.1	500998
92447133002	07960 SCURRY PRE GAC DUP	EPA 504 1	500925	EPA 504.1	500998
92447133003	07960 SCURRY POST GAC	EPA 504.1	500925	EPA 504.1	500998
92447133004	07960 GORDON PRE-GAC	EPA 504.1	500925	EPA 504.1	500998
92447133005	07960 GORDON POST GAC	EPA 504.1	500925	EPA 504.1	500998
92447133006	07960 FIELD BLANK	EPA 504.1	500925	EPA 504.1	500998
92447133001	07960 SCURRY PRE-GAC	EPA 524.2	500901		
92447133002	07960 SCURRY PRE GAC DUP	EPA 524 2	500901		
92447133003	07960 SCURRY POST GAC	EPA 524.2	500901		
92447133004	07960 GORDON PRE-GAC	EPA 524.2	500901		
92447133005	07960 GORDON POST GAC	EPA 524.2	500901		
92447133006	07960 FIELD BLANK	EPA 524.2	500901		
92447133007	07960 TRIP BLANK	EPA 524.2	500676		
92447133001	07960 SCURRY PRE-GAC	EPA 8260B	501228		
92447133002	07960 SCURRY PRE GAC DUP	EPA 8260B	501228		
92447133003	07960 SCURRY POST GAC	EPA 8260B	501228		
92447133004	07960 GORDON PRE-GAC	EPA 8260B	501228		
92447133005	07960 GORDON POST GAC	EPA 8260B	501228		
92447133006	07960 FIELD BLANK	EPA 8260B	501228		
92447133007	07960 TRIP BLANK	EPA 8260B	501228		

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Pace Analytical®	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville [ ] Eden [ ] Greenwood [ ] Huntersville [x] Raleigh [ ] Mechanicsville [ ]

Sample Condition Upon Receipt

Client Name: SCDHEC

Project #: WO# : 92447133

92447133

~~Courier: [ ] Fed Ex [ ] UPS [ ] USPS [ ] Client~~
[ ] Commercial [x] Pace [ ] Other: ____

Custody Seal Present? [ ] Yes [x] No **Seals Intact?** [ ] Yes [x] No

Date/Initials Person Examining Contents: SK 9-20

Packing Material: [ ] Bubble Wrap [x] Bubble Bags [ ] None [ ] Other

Biological Tissue Frozen? [ ] Yes [x] No [ ] N/A

Thermometer:
[x] IR Gun ID: 92T049

Type of Ice: [x] Wet [ ] Blue [ ] None

Cooler Temp (°C): 0.8 **Correction Factor: Add/Subtract (°C)** 0.0

Cooler Temp Corrected (°C): 0.8

Temp should be above freezing to 6°C
[ ] Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil ([x] N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? [ ] Yes [x] No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? [ ] Yes [ ] No

				Comments/Discrepancy:
Chain of Custody Present?	[x] Yes	[ ] No	[ ] N/A	1.
Samples Arrived within Hold Time?	[x] Yes	[ ] No	[ ] N/A	2.
Short Hold Time Analysis (<72 hr.)?	[ ] Yes	[x] No	[ ] N/A	3.
Rush Turn Around Time Requested?	[ ] Yes	[x] No	[ ] N/A	4.
Sufficient Volume?	[x] Yes	[ ] No	[ ] N/A	5.
Correct Containers Used?	[x] Yes	[ ] No	[ ] N/A	6.
-Pace Containers Used?	[x] Yes	[ ] No	[ ] N/A	
Containers Intact?	[ ] Yes	[x] No	[ ] N/A	7.
Dissolved analysis: Samples Field Filtered?	[ ] Yes	[ ] No	[x] N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	[x] Yes	[ ] No	[ ] N/A	9.
Headspace in VOA Vials (>5-6mm)?	[ ] Yes	[x] No	[ ] N/A	10.
Trip Blank Present?	[x] Yes	[ ] No	[ ] N/A	11.
Trip Blank Custody Seals Present?	[x] Yes	[ ] No	[ ] N/A	

COMMENTS/SAMPLE DISCREPANCY Field Data Required? [ ] Yes [ ] No

1 unpreserved in sample Scurry Post GAC has a broken cap.

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: ____ Date/Time: ____

Project Manager SCURF Review: HMB **Date:** 9-21-19

Project Manager SRF Review: HMB **Date:** 9-21-19

Pace Analytical™	Document Name: **Sample Condition Upon Receipt(SCUR)**	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: **F-CAR-CS-033-Rev.06**	Issuing Authority: Pace Carolinas Quality Office

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottle**

Project # **WO#:92447133**

PM: AMB Due Date: 10/04/19

CLIENT: 92-SCDHEC

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6	3	3										
2																6	3	3										
3																6	3	3	SR									
4																6	3	3	9-20-19									
5																6	3	3										
6																6	3	3										
7																4												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	SCDHEC	Report To:	A. Thrash	Attention:	
Address:	2600 BULL STREET	Copy To:		Company Name:	
	COLUMBIA, SC 29201			Address:	
Email To:	thrasham@dhec.sc.gov	Purchase Order No.:		Pace Quote Reference:	
Phone:	803-898-0589 Fax:	Project Name:	378 Truck Stop	Pace Project Manager:	T. Ezell
Requested Due Date/TAT:		Project Number:	SCDHEC SITE ID# 07960, PACE CA#	Pace Profile #:	

REGULATORY AGENCY

- ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
- ☑ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX, N. M. 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92447133
1	07960 SCURRY PRE-GAC	WT	G			9-23-19	1220		9				9						x	x	x		001
2	07960 SCURRY PRE GAC DUP	WT	G				1223		9				9						x	x	x		002
3	07960 SCURRY POST GAC	WT	G				1230		9				9						x	x	x		003
4	07960 GORDON PRE-GAC	WT	G				1120		9				9						x	x	x		004
5	07960 GORDON POST GAC	WT	G				1125		9				9						x	x	x		005
6	07960 FIELD BLANK	WT	G				1235		9				9						x	x	x		006
7	07960 TRIP BLANK	WT	G			9-23-19	—		4				4						x	x	x		007
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	9-23-19	1800	[signature] Pace	9/25/19	1015b				
	[signature] Pace	9/26/19	16:59	SKopov Pace	9-26-19	1054	0.8	Y	N	N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cody Popp

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 9-23-19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

GAC Unit Installation and Maintenance

Date: 11/26/19

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 730 Hwy 378 East, Edgefield, SC (Scurry Residence)

GAC Unit Serial Number: Tank #
Controller #

UST
Sawyer
DEC 06 2019
PROGRAM

NEW INSTALLATION

Date Installation Completed: ____________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

UST
16
4ed
DOCKETING

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit: X In Need of Repair* ____ Good

Condition of GAC Housing: ____ In Need of Repair* X Good

*Repairs Needed: Electrical outlet has no power. Will need to be replaced.

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
■ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #59931).

GAC Unit Installation and Maintenance

Date: 11/26/19

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 724 Hwy 378 East, Edgefield, SC (Gordon Residence)

GAC Unit Serial Number: Tank #

Controller #

NEW INSTALLATION

Date Installation Completed: ______

Attachments Required

- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* X Good

Condition of GAC Housing ______ In Need of Repair* X Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
☐ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre, Pre GAC DUP, and Post GAC samples were collected as described in the approved Site Specific Work Plan dated June 20th, 2019. Please find the attached Pace Chain of Custody Record. (Pace CA #59931).

GAC Maintenance Report

Permit # 07960

Emerald Job # 276-C

Address	Serial #	Model #	Date Serviced	Condition of Unit	Samples Collected
730 Hwy 378 East, Edgefield, SC Scurry Residence			11/26/19	Needs Repairs ☐ Good ■	Pre-GAC ■ Dup-GAC ■ Mid-GAC ☐ Post-GAC ■
724 Hwy 378 East, Edgefield, SC Gordon Residence			11/26/19	Needs Repairs ☐ Good ■	Pre-GAC ■ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ■
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC

Notes:

Filter Disposal Method: Landfill

Service/Repairs: The electrical outlet on the Scurry Residence GAC has malfunctioned and will need to be replaced.

Comments: Performed Carbon Filter change at Scurry & Gordon residences. Pre, and Post GAC samples were collected at the Gordon Residence with Pre, Pre Dup and Post GAC samples collected at the Scurry residence.

X

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:
Company: SCDHEC
Address: 2600 BULL STREET
COLUMBIA, SC 29201
Email To:
Phone: 803-898-0589 Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To:
Purchase Order No.:
Project Name: 378 Truck Stop 59931 S
Project Number: SCDHEC SITE ID# 07960, PACE CA#

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: T. Ezell
Pace Profile #:

Page: of

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

Valid Matrix Codes: DRINKING WATER DW, WATER WT, WASTE WATER WW, PRODUCT P, SOIL/SOLID SL, OIL OL, WIPE WP, AIR AR, OTHER OT, TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	07960 SCURRY PRE-GAC	WT	G			11-20-19	1330		9				9						x	x	x										
2	07960 SCURRY PRE GAC DUP	WT	G				1333		9				9						x	x	x										
3	07960 SCURRY POST GAC	WT	G				1340		9				9						x	x	x										
4	07960 GORDON PRE-GAC	WT	G				1446		9				9						x	x	x										
5	07960 GORDON POST GAC	WT	G				1445		9				9						x	x	x										
6	07960 FIELD BLANK	WT	G				1450		9				9						x	x	x										
7	07960 TRIP BLANK	WT	G			11-20-19	—		4				4						x	x	x										
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Cody Papp	11-20-19	1700	[illegible] Pace	11/22/19	13:16				

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Cody Papp
SIGNATURE of SAMPLER: Cody Papp
DATE Signed (MM/DD/YY): 11-20-19

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

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(704)875-9092

December 05, 2019

UST
DEC 11 2019
PROGRAM

Robert Dunn
SCDHEC
2600 Bull St
Columbia, SC 29201

RE: Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

Dear Robert Dunn:
Enclosed are the analytical results for sample(s) received by the laboratory on November 22, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,
Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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CERTIFICATIONS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92455041001	07960 SCURRY PRE-GAC	Water	11/20/19 13:30	11/22/19 13:16
92455041002	07960 SCURRY PRE GAC DUP	Water	11/20/19 13:33	11/22/19 13:16
92455041003	07960 SCURRY POST GAC	Water	11/20/19 13:40	11/22/19 13:16
92455041004	07960 GORDON PRE-GAC	Water	11/20/19 14:40	11/22/19 13:16
92455041005	07960 GORDON POST GAC	Water	11/20/19 14:45	11/22/19 13:16
92455041006	07960 FIELD BLANK	Water	11/20/19 14:50	11/22/19 13:16
92455041007	07960 TRIP BLANK	Water	11/20/19 00:00	11/22/19 13:16

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SAMPLE ANALYTE COUNT

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92455041001	07960 SCURRY PRE-GAC	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260B	CL	11	PASI-C
92455041002	07960 SCURRY PRE GAC DUP	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260B	CL	11	PASI-C
92455041003	07960 SCURRY POST GAC	EPA 504.1	BAJ	2	PASI-C
		EPA 524 2	GAW	10	PASI-C
		EPA 8260B	CL	11	PASI-C
92455041004	07960 GORDON PRE-GAC	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260B	CL	11	PASI-C
92455041005	07960 GORDON POST GAC	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260B	CL	11	PASI-C
92455041006	07960 FIELD BLANK	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260B	NSCQ	11	PASI-C
92455041007	07960 TRIP BLANK	EPA 524.2	GAW	10	PASI-C
		EPA 8260B	NSCQ	11	PASI-C

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

Sample: 07960 SCURRY PRE-GAC **Lab ID: 92455041001** Collected: 11/20/19 13:30 Received: 11/22/19 13:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	12/03/19 10:23	12/03/19 16:42	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	70-130		1	12/03/19 10:23	12/03/19 16:42	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		11/27/19 23:01	71-43-2	
1,2-Dichloroethane	**5.0**	ug/L	0.50	0.13	1		11/27/19 23:01	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		11/27/19 23:01	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		11/27/19 23:01	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		11/27/19 23:01	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		11/27/19 23:01	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0.46	1		11/27/19 23:01	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		11/27/19 23:01	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/27/19 23:01	2199-69-1	
4-Bromofluorobenzene (S)	92	%	70-130		1		11/27/19 23:01	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**128**	ug/L	100	53.9	1		12/03/19 16:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		12/03/19 16:07	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		12/03/19 16:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		12/03/19 16:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		12/03/19 16:07	762-75-4	
Diisopropyl ether	**0.24J**	ug/L	1.0	0.22	1		12/03/19 16:07	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		12/03/19 16:07	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		12/03/19 16:07	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		12/03/19 16:07	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		12/03/19 16:07	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/03/19 16:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

Sample: 07960 SCURRY PRE GAC DUP **Lab ID: 92455041002** Collected: 11/20/19 13:33 Received: 11/22/19 13:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	12/03/19 10:23	12/03/19 16:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	90	%	70-130		1	12/03/19 10:23	12/03/19 16:54	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		11/27/19 23:28	71-43-2	
1,2-Dichloroethane	**5.1**	ug/L	0.50	0.13	1		11/27/19 23:28	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		11/27/19 23:28	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		11/27/19 23:28	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		11/27/19 23:28	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		11/27/19 23:28	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0.46	1		11/27/19 23:28	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		11/27/19 23:28	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/27/19 23:28	2199-69-1	
4-Bromofluorobenzene (S)	94	%	70-130		1		11/27/19 23:28	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**126**	ug/L	100	53.9	1		12/03/19 16:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		12/03/19 16:25	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		12/03/19 16:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		12/03/19 16:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		12/03/19 16:25	762 75-4	
Diisopropyl ether	**0.22J**	ug/L	1.0	0.22	1		12/03/19 16:25	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		12/03/19 16:25	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		12/03/19 16:25	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		12/03/19 16:25	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		12/03/19 16:25	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/03/19 16:25	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

Sample: 07960 SCURRY POST GAC **Lab ID: 92455041003** Collected: 11/20/19 13:40 Received: 11/22/19 13:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.012	1	12/03/19 10:23	12/03/19 17:06	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	91	%	70-130		1	12/03/19 10:23	12/03/19 17:06	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		11/27/19 23:54	71-43-2	
1,2-Dichloroethane	**5.2**	ug/L	0.50	0.13	1		11/27/19 23:54	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		11/27/19 23:54	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		11/27/19 23:54	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		11/27/19 23:54	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		11/27/19 23:54	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0.46	1		11/27/19 23:54	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		11/27/19 23:54	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		11/27/19 23:54	2199-69-1	
4-Bromofluorobenzene (S)	95	%	70-130		1		11/27/19 23:54	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**139**	ug/L	100	53.9	1		12/03/19 16:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		12/03/19 16:43	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		12/03/19 16:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		12/03/19 16:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		12/03/19 16:43	762-75-4	
Diisopropyl ether	**0.23J**	ug/L	1.0	0.22	1		12/03/19 16:43	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		12/03/19 16:43	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		12/03/19 16:43	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		12/03/19 16:43	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		12/03/19 16:43	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/03/19 16:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

Sample: 07960 GORDON PRE-GAC **Lab ID: 92455041004** Collected: 11/20/19 14:40 Received: 11/22/19 13:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	12/03/19 10:23	12/03/19 17:17	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	91	%	70-130		1	12/03/19 10:23	12/03/19 17:17	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		12/02/19 22:42	71-43-2	
1,2-Dichloroethane	**4.5**	ug/L	0.50	0.13	1		12/02/19 22:42	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		12/02/19 22:42	100-41-4	
Methyl-tert-butyl ether	**0.44J**	ug/L	0.50	0.094	1		12/02/19 22:42	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		12/02/19 22:42	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		12/02/19 22:42	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0.46	1		12/02/19 22:42	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		12/02/19 22:42	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		12/02/19 22:42	2199-69-1	
4-Bromofluorobenzene (S)	95	%	70-130		1		12/02/19 22:42	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**82.8J**	ug/L	100	53.9	1		12/03/19 17:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		12/03/19 17:01	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		12/03/19 17:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		12/03/19 17:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		12/03/19 17:01	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		12/03/19 17:01	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		12/03/19 17:01	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		12/03/19 17:01	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		12/03/19 17:01	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		12/03/19 17:01	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		12/03/19 17:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

Sample: 07960 GORDON POST GAC **Lab ID: 92455041005** Collected: 11/20/19 14:45 Received: 11/22/19 13:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method. EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	12/03/19 10:23	12/03/19 17:29	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	85	%	70-130		1	12/03/19 10:23	12/03/19 17:29	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		12/02/19 23:09	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		12/02/19 23:09	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		12/02/19 23:09	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		12/02/19 23:09	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		12/02/19 23:09	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		12/02/19 23:09	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0.46	1		12/02/19 23:09	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		12/02/19 23:09	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		12/02/19 23:09	2199-69-1	
4-Bromofluorobenzene (S)	93	%	70-130		1		12/02/19 23:09	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		12/03/19 17:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		12/03/19 17:18	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		12/03/19 17:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		12/03/19 17:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		12/03/19 17:18	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		12/03/19 17:18	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		12/03/19 17:18	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		12/03/19 17:18	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		12/03/19 17:18	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		12/03/19 17:18	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/03/19 17:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

Sample: 07960 FIELD BLANK **Lab ID: 92455041006** Collected: 11/20/19 14:50 Received: 11/22/19 13:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	12/03/19 10:23	12/03/19 17:41	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	92	%	70-130		1	12/03/19 10:23	12/03/19 17:41	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		12/02/19 17:00	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		12/02/19 17:00	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		12/02/19 17:00	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		12/02/19 17:00	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		12/02/19 17:00	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		12/02/19 17:00	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0.46	1		12/02/19 17:00	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		12/02/19 17:00	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		12/02/19 17:00	2199-69-1	
4-Bromofluorobenzene (S)	97	%	70-130		1		12/02/19 17:00	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		12/03/19 07:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		12/03/19 07:16	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		12/03/19 07:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		12/03/19 07:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		12/03/19 07:16	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		12/03/19 07:16	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		12/03/19 07:16	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		12/03/19 07:16	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		12/03/19 07:16	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		12/03/19 07:16	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		12/03/19 07:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931

Pace Project No.: 92455041

Sample: 07960 TRIP BLANK **Lab ID: 92455041007** Collected: 11/20/19 00:00 Received: 11/22/19 13:16 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		12/02/19 17:27	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		12/02/19 17:27	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		12/02/19 17:27	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		12/02/19 17:27	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		12/02/19 17:27	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		12/02/19 17:27	108-88-3	
m&p-Xylene	ND	ug/L	0.50	0.46	1		12/02/19 17:27	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		12/02/19 17:27	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%	70-130		1		12/02/19 17:27	2199-69-1	
4-Bromofluorobenzene (S)	96	%	70-130		1		12/02/19 17:27	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		12/03/19 07:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		12/03/19 07:34	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		12/03/19 07:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		12/03/19 07:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		12/03/19 07:34	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		12/03/19 07:34	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		12/03/19 07:34	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		12/03/19 07:34	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/03/19 07:34	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		12/03/19 07:34	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		12/03/19 07:34	2037-26-5	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

QC Batch: 512173 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 92455041001, 92455041002, 92455041003

METHOD BLANK: 2746624 Matrix: Water
Associated Lab Samples: 92455041001, 92455041002, 92455041003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.13	11/27/19 16:27	
Benzene	ug/L	ND	0.50	0.25	11/27/19 16:27	
Ethylbenzene	ug/L	ND	0.50	0.26	11/27/19 16:27	
m&p-Xylene	ug/L	ND	0.50	0.46	11/27/19 16:27	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.094	11/27/19 16:27	
Naphthalene	ug/L	ND	0.50	0.31	11/27/19 16:27	
o-Xylene	ug/L	ND	0.50	0.25	11/27/19 16:27	
Toluene	ug/L	ND	0.50	0.24	11/27/19 16:27	
1,2-Dichlorobenzene-d4 (S)	%	96	70-130		11/27/19 16:27	
4-Bromofluorobenzene (S)	%	90	70-130		11/27/19 16:27	

LABORATORY CONTROL SAMPLE: 2746625

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	19.8	99	70-130	
Benzene	ug/L	20	18.8	94	70-130	
Ethylbenzene	ug/L	20	18.7	93	70-130	
m&p-Xylene	ug/L	40	37.3	93	70-130	
Methyl-tert-butyl ether	ug/L	20	19.2	96	70-130	
Naphthalene	ug/L	20	18.5	92	70-130	
o-Xylene	ug/L	20	18.6	93	70-130	
Toluene	ug/L	20	17.7	89	70-130	
1,2-Dichlorobenzene-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

QC Batch: 512378 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 92455041004, 92455041005, 92455041006, 92455041007

METHOD BLANK: 2747560 Matrix: Water
Associated Lab Samples: 92455041004, 92455041005, 92455041006, 92455041007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.13	12/02/19 14:23	
Benzene	ug/L	ND	0.50	0.25	12/02/19 14:23	
Ethylbenzene	ug/L	ND	0.50	0.26	12/02/19 14:23	
m&p-Xylene	ug/L	ND	0.50	0.46	12/02/19 14:23	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.094	12/02/19 14:23	
Naphthalene	ug/L	ND	0.50	0.31	12/02/19 14:23	
o-Xylene	ug/L	ND	0.50	0.25	12/02/19 14:23	
Toluene	ug/L	ND	0.50	0.24	12/02/19 14:23	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130		12/02/19 14:23	
4-Bromofluorobenzene (S)	%	98	70-130		12/02/19 14:23	

LABORATORY CONTROL SAMPLE: 2747561

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	22.1	111	70-130	
Benzene	ug/L	20	20.4	102	70-130	
Ethylbenzene	ug/L	20	20.3	101	70-130	
m&p-Xylene	ug/L	40	41.1	103	70-130	
Methyl-tert-butyl ether	ug/L	20	21.7	109	70-130	
Naphthalene	ug/L	20	21.6	108	70-130	
o-Xylene	ug/L	20	20.5	103	70-130	
Toluene	ug/L	20	19.5	97	70-130	
1,2-Dichlorobenzene-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

QC Batch: 512424 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92455041006, 92455041007

METHOD BLANK: 2747757 Matrix: Water
Associated Lab Samples: 92455041006, 92455041007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	12/03/19 02:11	
Diisopropyl ether	ug/L	ND	1.0	0.22	12/03/19 02:11	
Ethanol	ug/L	ND	200	98.8	12/03/19 02:11	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	12/03/19 02:11	
tert-Amyl Alcohol	ug/L	ND	100	53.9	12/03/19 02:11	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	12/03/19 02:11	
tert-Butyl Alcohol	ug/L	ND	100	27.3	12/03/19 02:11	
tert-Butyl Formate	ug/L	ND	50.0	24.7	12/03/19 02:11	
1,2-Dichloroethane-d4 (S)	%	93	70-130		12/03/19 02:11	
4-Bromofluorobenzene (S)	%	97	70-130		12/03/19 02:11	
Toluene-d8 (S)	%	103	70-130		12/03/19 02:11	

LABORATORY CONTROL SAMPLE: 2747758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1120	112	70-130	
Diisopropyl ether	ug/L	50	58.3	117	70-130	
Ethanol	ug/L	2000	2280	114	70-130	
Ethyl-tert-butyl ether	ug/L	100	112	112	70-130	
tert-Amyl Alcohol	ug/L	1000	1140	114	70-130	
tert-Amylmethyl ether	ug/L	100	116	116	70-130	
tert-Butyl Alcohol	ug/L	500	515	103	70-130	
tert-Butyl Formate	ug/L	400	464	116	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2747759 2747760

Parameter	Units	92454968015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	384	440	96	110	70-130	14	30	
Diisopropyl ether	ug/L	ND	20	20	22.5	21.8	113	109	70-130	3	30	
Ethanol	ug/L	ND	800	800	762	833	95	104	70-130	9	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	43.3	41.9	108	105	70-130	3	30	
tert-Amyl Alcohol	ug/L	ND	400	400	382	426	96	106	70-130	11	30	
tert-Amylmethyl ether	ug/L	ND	40	40	45.4	43.7	114	109	70-130	4	30	
tert-Butyl Alcohol	ug/L	ND	200	200	243	274	121	137	70-130	12	30	M1

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2747759 2747760

Parameter	Units	92454968015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
tert-Butyl Formate	ug/L	ND	160	160	92.6	73.1	58	46	70-130	24	30	P5
1,2-Dichloroethane-d4 (S)	%						96	93	70-130			
4-Bromofluorobenzene (S)	%						100	100	70-130			
Toluene-d8 (S)	%						98	97	70-130			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

QC Batch: 512426 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92455041001, 92455041002, 92455041003, 92455041004, 92455041005

METHOD BLANK: 2747772 Matrix: Water
Associated Lab Samples: 92455041001, 92455041002, 92455041003, 92455041004, 92455041005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	12/03/19 15:31	
Diisopropyl ether	ug/L	ND	1.0	0.22	12/03/19 15:31	
Ethanol	ug/L	ND	200	98.8	12/03/19 15:31	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	12/03/19 15:31	
tert-Amyl Alcohol	ug/L	ND	100	53.9	12/03/19 15:31	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	12/03/19 15:31	
tert-Butyl Alcohol	ug/L	ND	100	27.3	12/03/19 15:31	
tert-Butyl Formate	ug/L	ND	50.0	24.7	12/03/19 15:31	
1,2-Dichloroethane-d4 (S)	%	91	70-130		12/03/19 15:31	
4-Bromofluorobenzene (S)	%	95	70-130		12/03/19 15:31	
Toluene-d8 (S)	%	101	70-130		12/03/19 15:31	

LABORATORY CONTROL SAMPLE: 2747773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1080	108	70-130	
Diisopropyl ether	ug/L	50	54.2	108	70-130	
Ethanol	ug/L	2000	2210	110	70-130	
Ethyl-tert-butyl ether	ug/L	100	103	103	70-130	
tert-Amyl Alcohol	ug/L	1000	1080	108	70-130	
tert-Amylmethyl ether	ug/L	100	108	108	70-130	
tert-Butyl Alcohol	ug/L	500	435	87	70-130	
tert-Butyl Formate	ug/L	400	332	83	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2749150 2749151

Parameter	Units	92454968016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
3,3-Dimethyl-1-Butanol	ug/L	ND	8000	8000	7300	7670	91	96	70-130	5	30	
Diisopropyl ether	ug/L	ND	400	400	405	412	101	103	70-130	2	30	
Ethanol	ug/L	ND	16000	16000	14000	14400	88	90	70-130	3	30	
Ethyl-tert-butyl ether	ug/L	ND	800	800	774	784	97	98	70-130	1	30	
tert-Amyl Alcohol	ug/L	ND	8000	8000	7080	7120	88	89	70-130	1	30	
tert-Amylmethyl ether	ug/L	ND	800	800	818	841	102	105	70-130	3	30	
tert-Butyl Alcohol	ug/L	ND	4000	4000	3600	3670	90	92	70-130	2	30	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2749150 2749151

Parameter	Units	92454968016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
tert-Butyl Formate	ug/L	ND	3200	3200	3020	3090	94	97	70-130	2	30	
1,2-Dichloroethane-d4 (S)	%						96	94	70-130			
4-Bromofluorobenzene (S)	%						98	98	70-130			
Toluene-d8 (S)	%						96	96	70-130			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

QC Batch: 512557 Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP
Associated Lab Samples: 92455041001, 92455041002, 92455041003, 92455041004, 92455041005, 92455041006

METHOD BLANK: 2748130 Matrix: Water
Associated Lab Samples: 92455041001, 92455041002, 92455041003, 92455041004, 92455041005, 92455041006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	0.011	12/03/19 15:08	
1-Chloro-2-bromopropane (S)	%	117	70-130		12/03/19 15:08	

LABORATORY CONTROL SAMPLE & LCSD: 2748131 2748132

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.24	0.24	0.24	99	97	70-130	3	20	
1-Chloro-2-bromopropane (S)	%				100	98	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2748134 2748135

Parameter	Units	92455531002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.56	0.16	226	66	65-135	109	20	M1,R1
1-Chloro-2-bromopropane (S)	%						121	82	70-130			

SAMPLE DUPLICATE: 2748133

Parameter	Units	92455531001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	89	184			S3

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
R1	RPD value was outside control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92455041

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92455041001	07960 SCURRY PRE-GAC	EPA 504.1	512557	EPA 504.1	512641
92455041002	07960 SCURRY PRE GAC DUP	EPA 504.1	512557	EPA 504.1	512641
92455041003	07960 SCURRY POST GAC	EPA 504.1	512557	EPA 504.1	512641
92455041004	07960 GORDON PRE-GAC	EPA 504.1	512557	EPA 504.1	512641
92455041005	07960 GORDON POST GAC	EPA 504.1	512557	EPA 504.1	512641
92455041006	07960 FIELD BLANK	EPA 504.1	512557	EPA 504.1	512641
92455041001	07960 SCURRY PRE-GAC	EPA 524.2	512173		
92455041002	07960 SCURRY PRE GAC DUP	EPA 524.2	512173		
92455041003	07960 SCURRY POST GAC	EPA 524.2	512173		
92455041004	07960 GORDON PRE-GAC	EPA 524.2	512378		
92455041005	07960 GORDON POST GAC	EPA 524.2	512378		
92455041006	07960 FIELD BLANK	EPA 524.2	512378		
92455041007	07960 TRIP BLANK	EPA 524.2	512378		
92455041001	07960 SCURRY PRE-GAC	EPA 8260B	512426		
92455041002	07960 SCURRY PRE GAC DUP	EPA 8260B	512426		
92455041003	07960 SCURRY POST GAC	EPA 8260B	512426		
92455041004	07960 GORDON PRE-GAC	EPA 8260B	512426		
92455041005	07960 GORDON POST GAC	EPA 8260B	512426		
92455041006	07960 FIELD BLANK	EPA 8260B	512424		
92455041007	07960 TRIP BLANK	EPA 8260B	512424		

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Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐

Sample Condition Upon Receipt

Client Name: SCDEH

Project WO# : 92455041

92455041

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☑ No

Date/Initials Person Examining Contents: 11 [illegible]

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 92T058

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp (°C): 1.3 Correction Factor: Add/Subtract (°C) 0.0°C

Cooler Temp Corrected (°C): 1.3

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☐ Yes	☑ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	10.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: ________ Date/Time: ________

Project Manager SCURF Review: AMB Date: 11-26-19

Project Manager SRF Review: AMB Date: 11-26-19

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project # **WO# : 92455041**

PM: AMB Due Date: 12/05/19

CLIENT: 92-SCDHEC

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	~~VG9H~~	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6												
2																6												
3																6												
4																6												
5																6												
6																6												
7																4	*											
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	SCDHEC	Report To:		Attention:	
Address:	2600 BULL STREET	Copy To:		Company Name:	
	COLUMBIA, SC 29201			Address:	
Email To:		Purchase Order No.		Pace Quote Reference:	
Phone:	803-898-0589 Fax:	Project Name:	378 Truck Stop 59931	Pace Project Manager:	T. Ezell
Requested Due Date/TAT:		Project Number:	SCDHEC SITE ID# 07960, PACE CA#	Pace Profile #:	

Page: of

REGULATORY AGENCY

- NPDES
- GROUND WATER
- DRINKING WATER
- ☑ UST
- RCRA
- OTHER

Site Location STATE: SC

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	↓Analysis Test↓ Y/N	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	07960 SCURRY PRE-GAC	WT	G			11-20-19	1330		9				9						X	X	X		[illegible]
2	07960 SCURRY PRE GAC DUP	WT	G				1333		9				9						X	X	X		[illegible]
3	07960 SCURRY POST GAC	WT	G				1340		9				9						X	X	X		[illegible]
4	07960 GORDON PRE-GAC	WT	G				1446		9				9						X	X	X		004
5	07960 GORDON POST GAC	WT	G				1445		9				9						X	X	X		[illegible]
6	07960 FIELD BLANK	WT	G				1450		9				9						X	X	X		[illegible]
7	07960 TRIP BLANK	WT	G			11-20-19	—		4				4						X	X	X		007
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Cody Papp	11-20-19	1700	[illegible] Pace	11/22/19	13:16				
	[illegible] Pace	11/22/19	17:12	Jovana X / Pace	11-22-19	17:12	1 3	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cody Papp

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 11-20-19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

ecs WHERE BUSINESS AND THE ENVIRONMENT CONVERGE

13504 South Point Boulevard, Unit F, Charlotte, NC 28273 tel 704.583.2711 fax 704.583.2744 www.ecsconsult.com

November 23, 2010
ECS Project No. 14-214210
UST Permit No. 07960

UST
DEC 01 2010
PROGRAM

Ms. Cathleen Ridgley
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

1 dech
UST
DOCKET

Re: WSW-1 GAC Installation
378 Truck Stop
731 Highway 378
Edgefield, South Carolina 29824
Edgefield County

Dear Ms. Ridgley:

Environmental Compliance Services, Inc. (ECS), on behalf of Wilkerson Fuel Company, Inc., visited Ms. Hattie Scurry's residence, located at 730 Highway 378, Edgefield, SC, on November 18, 2010 to install a Granular Activated Carbon (GAC) unit on private water supply well WSW-1 (**Figure 1** and **Figure 2**). This work was conducted in response to a South Carolina Department of Health and Environmental Control (SCDHEC) directive dated November 15, 2010. The directive required a GAC unit be installed on WSW-1 as a precautionary measure that resulted from reported concentrations of contaminants of concern in groundwater samples collected by ECS from the water supply well on October 19, 2010. The analytical results obtained by ECS were verified with a sampling event conducted by SCDHEC on November 4, 2010. The laboratory report from the verification sampling conducted by SCDHEC has been included as **Appendix A**. The laboratory report from the initial sampling will be included with the Tier II report, which will also include groundwater sampling results from site monitoring wells.

Upon arrival to the residence on November 18, 2010, ECS personnel discussed the planned activities with the property owner, Ms. Hattie Scurry. A 12 x 52 mesh GAC unit containing 90 lbs of acid-washed virgin carbon was installed on the private water supply well utilizing chlorinated polyvinyl chloride (CPVC) piping. Influent and effluent sample ports were installed on the piping in pre- and post-carbon locations for subsequent collection of groundwater samples. The GAC vessel was placed inside a wooden shed for protection from weathering from outdoor elements.

Prior to installation, the GAC was charged to relieve air from the unit and to prepare the carbon to receive water. Following installation, water was discharged from the supply well, through the GAC unit, and out the effluent until the water ran clear and no apparent air bubbles were present. After the GAC vessel was installed and water had been purged from the unit, groundwater samples were collected from the influent and effluent sample ports. The groundwater samples

Printed on recycled, carbon neutral paper

were placed into an iced cooler and delivered to Pace Analytical Laboratories of Huntersville, NC for subsequent analysis of BTEX compounds (benzene, toluene, ethylbenzene, and xylenes), MTBE, naphthalene, 1,2 DCA, and oxygenates using EPA Method 8260B and EDB using EPA Method 8011. The laboratory report has been included as **Appendix B**.

A concentration of 1,2 DCA was reported below the Risk Based Screening Level (RBSL) in the influent water sample. Concentrations of the requested method constituents were not reported above the laboratory reporting limits or method detection limits in the effluent water sample.

Please contact the undersigned at 704-583-2711 or email cdupuis@ecsconsult.com or bschaefer@ecsconsult.com if you have any questions or require additional information.

Sincerely,
ENVIRONMENTAL COMPLIANCE SERVICES, INC.

Christine E. Dupuis
Project Manager

Brett G. Schaefer, PE
SC License No. 27700

SOUTH CAROLINA
PROFESSIONAL ENGINEER
LICENSED
No. 27700
BRETT G. SCHAEFER

Enclosures

cc: Mr. Frank Wilkerson, Wilkerson Fuel Company, PO Box 2835, Rock Hill, SC 29732

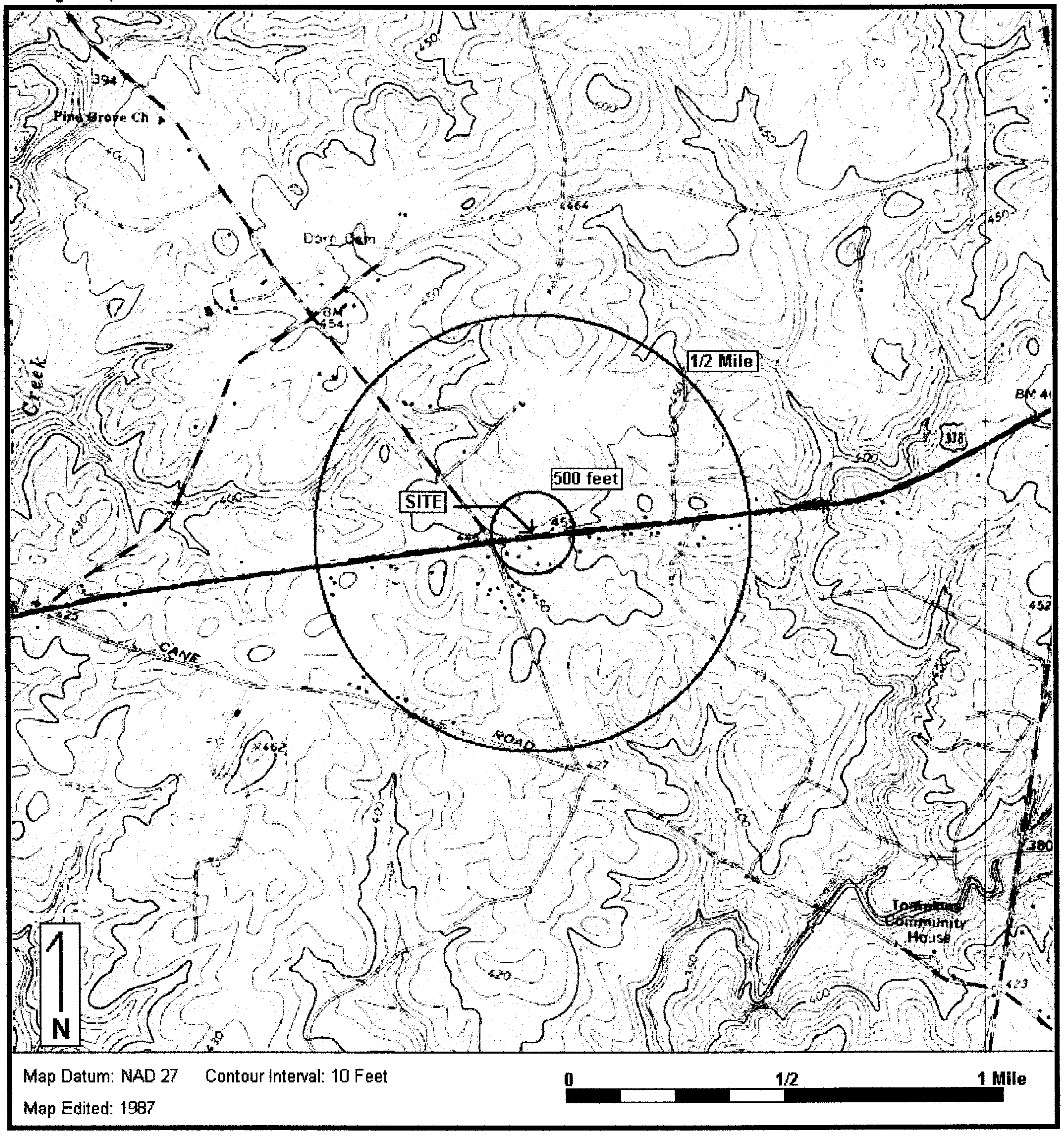
F:\Projects\14-214210 378 Truck Stop\WSW-1 GAC Install\WSW-1 GAC Install Report.doc

FIGURES

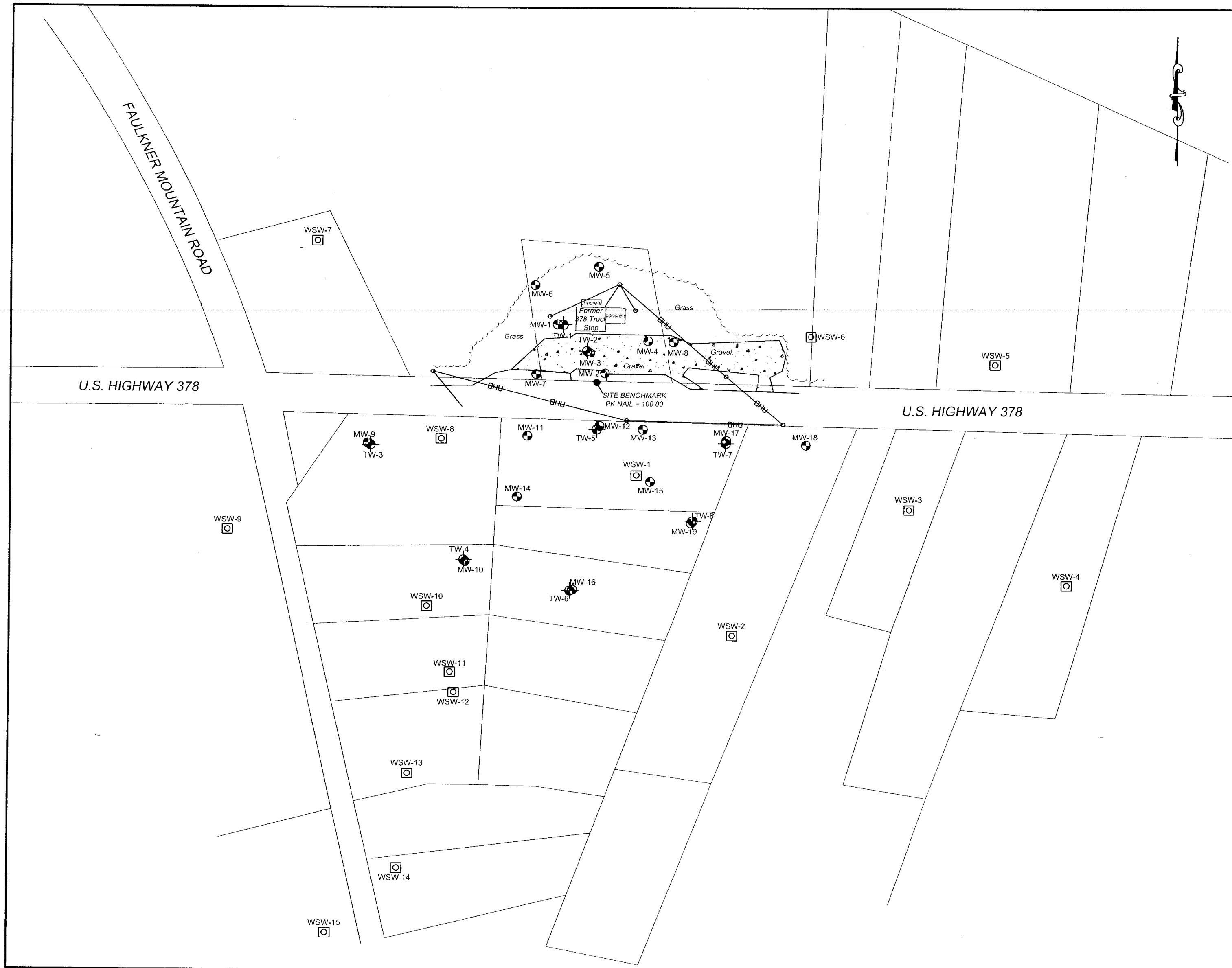
Environmental Compliance Services, Inc.
13504 South Point Boulevard
Charlotte, NC 28273
Phone 704.583.2711
www.ecsconsult.com

378 Truck Stop
731 Highway 378
Edgefield, SC 29824

Figure 1: SITE LOCUS



Base Map: U.S. Geological Survey; Quadrangle Location: Owdoms, SC
Lat/Lon: 33° 56' 13" NORTH, 81° 57' 3" WEST - UTM Coordinates: 17 412120 EAST / 3755577 NORTH
Generated By: Rich Walas



Legend

- Approximate Property Line
- OHU — Overhead Electric Line
- Utility Pole
- Shallow (Water Table) Monitoring Well
- Telescoping Monitoring Well
- Water Supply Well
- MW-1 Well I.D.

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Horizontal and vertical locations of wells and selected site features determined through measurements made by representatives of ECS.

ecs

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13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL. (704)583-2711 FAX (704)583-2744

PROJECT: 378 Truck Stop
731 Highway 378
Edgefield, SC

TITLE: Site Plan

CLIENT: Wilkerson Fuel Company, Inc.

GRAPHIC SCALE: 150 75 0 75 150

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO:	FIGURE NO:
1"=150'	11/23/10	14-214210	2

APPENDIX A

Pace Analytical®
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Huntersville, NC 28078
(704)875-9092

November 08, 2010

Ms. Debra Thoma
SCDHEC
UST Program
2600 Bull Street
Columbia, SC 29201

RE: Project: 378 TRUCK STOP 07960
Pace Project No.: 9281530

Dear Ms. Thoma:

Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Erin L. Waters

Erin Waters for
Renee Spencer
renee.spencer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9281530

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

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SAMPLE SUMMARY

Project: 378 TRUCK STOP 07960
Pace Project No.: 9281530

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9281530001	07960 WSW 13	Water	11/04/10 10:30	11/05/10 13:45
9281530002	07960 WSW 14	Water	11/04/10 10:45	11/05/10 13:45
9281530003	07960 WSW 8	Water	11/04/10 11:00	11/05/10 13:45
9281530004	07960 WSW 1	Water	11/04/10 11:30	11/05/10 13:45

REPORT OF LABORATORY ANALYSIS
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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP 07960
Pace Project No.: 9281530

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9281530001	07960 WSW 13	EPA 8011	RES	2	PASI-C
		EPA 8260	MCK	21	PASI-C
9281530002	07960 WSW 14	EPA 8011	RES	2	PASI-C
		EPA 8260	MCK	21	PASI-C
9281530003	07960 WSW 8	EPA 8011	RES	2	PASI-C
		EPA 8260	MCK	21	PASI-C
9281530004	07960 WSW 1	EPA 8011	RES	2	PASI-C
		EPA 8260	MCK	21	PASI-C

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(704)875-9092

HITS ONLY

Project: 378 TRUCK STOP 07960
Pace Project No.: 9281530

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
9281530001	**07960 WSW 13**					
EPA 8260	Methyl-tert-butyl ether	0.32J	ug/L	1.0	11/07/10 23:33	
9281530002	**07960 WSW 14**					
EPA 8260	Methyl-tert-butyl ether	1.3	ug/L	1.0	11/07/10 23:58	
9281530003	**07960 WSW 8**					
EPA 8260	tert-Amyl Alcohol	130	ug/L	100	11/08/10 00:24	
EPA 8260	1,2-Dichloroethane	8.7	ug/L	1.0	11/08/10 00:24	
EPA 8260	Diisopropyl ether	0.23J	ug/L	1.0	11/08/10 00:24	
EPA 8260	Methyl-tert-butyl ether	0.83J	ug/L	1.0	11/08/10 00:24	
9281530004	**07960 WSW 1**					
EPA 8260	tert-Butyl Alcohol	7.5J	ug/L	50.0	11/08/10 00:49	
EPA 8260	1,2-Dichloroethane	2.6	ug/L	1.0	11/08/10 00:49	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9281530

Sample: 07960 WSW 13 Lab ID: 9281530001 Collected: 11/04/10 10:30 Received: 11/05/10 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/07/10 14:30	11/07/10 15:56	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	11/07/10 14:30	11/07/10 15:56	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		11/07/10 23:33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		11/07/10 23:33	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		11/07/10 23:33	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		11/07/10 23:33	624-95-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		11/07/10 23:33	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		11/07/10 23:33	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/07/10 23:33	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/07/10 23:33	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		11/07/10 23:33	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/07/10 23:33	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		11/07/10 23:33	637-92-3	
Methyl-tert-butyl ether	**0.32J**	ug/L	1.0	0.21	1		11/07/10 23:33	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		11/07/10 23:33	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		11/07/10 23:33	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/07/10 23:33	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/07/10 23:33	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/07/10 23:33	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130		1		11/07/10 23:33	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		11/07/10 23:33	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		11/07/10 23:33	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		11/07/10 23:33	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9281530

Sample: 07960 WSW 14 Lab ID: 9281530002 Collected: 11/04/10 10:45 Received: 11/05/10 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	11/07/10 14:30	11/07/10 16:16	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	11/07/10 14:30	11/07/10 16:16	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		11/07/10 23:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		11/07/10 23:58	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		11/07/10 23:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		11/07/10 23:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		11/07/10 23:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		11/07/10 23:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		11/07/10 23:58	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/07/10 23:58	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		11/07/10 23:58	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/07/10 23:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		11/07/10 23:58	637-92-3	
Methyl-tert-butyl ether	**1.3**	ug/L	1.0	0.21	1		11/07/10 23:58	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		11/07/10 23:58	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		11/07/10 23:58	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/07/10 23:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/07/10 23:58	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/07/10 23:58	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130		1		11/07/10 23:58	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		11/07/10 23:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/07/10 23:58	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		11/07/10 23:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9281530

Sample: 07960 WSW 8 | **Lab ID: 9281530003** | Collected: 11/04/10 11:00 | Received: 11/05/10 13:45 | Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	11/07/10 14:30	11/07/10 16:36	106-93-4	
1-Chloro-2-bromopropane (S)	100	%	60-140		1	11/07/10 14:30	11/07/10 16:36	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**130**	ug/L	100	50.0	1		11/08/10 00:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		11/08/10 00:24	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		11/08/10 00:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		11/08/10 00:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		11/08/10 00:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		11/08/10 00:24	762-75-4	
1,2-Dichloroethane	**8.7**	ug/L	1.0	0.12	1		11/08/10 00:24	107-06-2	
Diisopropyl ether	**0.23J**	ug/L	1.0	0.12	1		11/08/10 00:24	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		11/08/10 00:24	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/08/10 00:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		11/08/10 00:24	637-92-3	
Methyl-tert-butyl ether	**0.83J**	ug/L	1.0	0.21	1		11/08/10 00:24	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		11/08/10 00:24	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		11/08/10 00:24	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/08/10 00:24	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/08/10 00:24	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/08/10 00:24	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130		1		11/08/10 00:24	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		11/08/10 00:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		11/08/10 00:24	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		11/08/10 00:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9281530

Sample: 07960 WSW 1 Lab ID: 9281530004 Collected: 11/04/10 11:30 Received: 11/05/10 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	11/07/10 14:31	11/07/10 16:56	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	11/07/10 14:31	11/07/10 16:56	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		11/08/10 00:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		11/08/10 00:49	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		11/08/10 00:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		11/08/10 00:49	624-95-3	
tert-Butyl Alcohol	**7.5J**	ug/L	50.0	3.6	1		11/08/10 00:49	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		11/08/10 00:49	762-75-4	
1,2-Dichloroethane	**2.6**	ug/L	1.0	0.12	1		11/08/10 00:49	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		11/08/10 00:49	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		11/08/10 00:49	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		11/08/10 00:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		11/08/10 00:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		11/08/10 00:49	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		11/08/10 00:49	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		11/08/10 00:49	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		11/08/10 00:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		11/08/10 00:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		11/08/10 00:49	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130		1		11/08/10 00:49	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		11/08/10 00:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		11/08/10 00:49	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		11/08/10 00:49	2037-26-5	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960
Pace Project No.: 9281530

QC Batch: OEXT/11768
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9281530001, 9281530002, 9281530003, 9281530004

METHOD BLANK: 524298 Matrix: Water
Associated Lab Samples: 9281530001, 9281530002, 9281530003, 9281530004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	11/07/10 14:55	
1-Chloro-2-bromopropane (S)	%	99	60-140	11/07/10 14:55	

LABORATORY CONTROL SAMPLE & LCSD: 524299 524300

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.30	0.31	106	108	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				100	101	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 524301 524302

Parameter	Units	9281516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.31	0.31	110	110	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						110	110	60-140			

SAMPLE DUPLICATE: 524303

Parameter	Units	9281516004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	117	115	0		

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960
Pace Project No.: 9281530

QC Batch: MSV/12943 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 9281530001, 9281530002, 9281530003, 9281530004

METHOD BLANK: 524256 — Matrix: Water
Associated Lab Samples: 9281530001, 9281530002, 9281530003, 9281530004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	11/07/10 23:08	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	11/07/10 23:08	
Benzene	ug/L	ND	1.0	11/07/10 23:08	
Diisopropyl ether	ug/L	ND	1.0	11/07/10 23:08	
Ethanol	ug/L	ND	200	11/07/10 23:08	
Ethyl-tert-butyl ether	ug/L	ND	10.0	11/07/10 23:08	
Ethylbenzene	ug/L	ND	1.0	11/07/10 23:08	
m&p-Xylene	ug/L	ND	2.0	11/07/10 23:08	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/07/10 23:08	
Naphthalene	ug/L	ND	1.0	11/07/10 23:08	
o-Xylene	ug/L	ND	1.0	11/07/10 23:08	
tert-Amyl Alcohol	ug/L	ND	100	11/07/10 23:08	
tert-Amylmethyl ether	ug/L	ND	10.0	11/07/10 23:08	
tert-Butyl Alcohol	ug/L	ND	50.0	11/07/10 23:08	
tert-Butyl Formate	ug/L	ND	50.0	11/07/10 23:08	
Toluene	ug/L	ND	1.0	11/07/10 23:08	
Xylene (Total)	ug/L	ND	2.0	11/07/10 23:08	
1,2-Dichloroethane-d4 (S)	%	98	70-130	11/07/10 23:08	
4-Bromofluorobenzene (S)	%	101	70-130	11/07/10 23:08	
Dibromofluoromethane (S)	%	98	70-130	11/07/10 23:08	
Toluene-d8 (S)	%	97	70-130	11/07/10 23:08	

LABORATORY CONTROL SAMPLE: 524257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.1	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1040	104	70-130	
Benzene	ug/L	50	51.0	102	70-130	
Diisopropyl ether	ug/L	50	47.8	96	70-130	
Ethanol	ug/L	2000	1900	95	70-130	
Ethyl-tert-butyl ether	ug/L	100	102	102	70-130	
Ethylbenzene	ug/L	50	51.6	103	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	49.9	100	70-130	
Naphthalene	ug/L	50	54.0	108	70-130	
o-Xylene	ug/L	50	53.7	107	70-130	
tert-Amyl Alcohol	ug/L	1000	1080	108	70-130	
tert-Amylmethyl ether	ug/L	100	110	110	70-130	
tert-Butyl Alcohol	ug/L	500	467	93	70-130	
tert-Butyl Formate	ug/L	400	440	110	70-130	
Toluene	ug/L	50	51.5	103	70-130	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960
Pace Project No.: 9281530

LABORATORY CONTROL SAMPLE: 524257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	159	106	70-130	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			94	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 524258 524259

Parameter	Units	9281530004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	2.6	50	50	52.7	57.5	100	110	70-130	9	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	1000	1150	100	115	70-130	14	30	
Benzene	ug/L	ND	50	50	52.9	56.6	106	113	70-130	7	30	
Diisopropyl ether	ug/L	ND	50	50	48.8	54.7	98	109	70-130	11	30	
Ethanol	ug/L	ND	2000	2000	1920	2170	96	109	70-130	12	30	
Ethyl-tert-butyl ether	ug/L	ND	100	100	103	116	103	116	70-130	12	30	
Ethylbenzene	ug/L	ND	50	50	55.4	58.4	111	117	70-130	5	30	
m&p-Xylene	ug/L	ND	100	100	113	121	113	121	70-130	7	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	49.1	56.1	98	112	70-130	13	30	
Naphthalene	ug/L	ND	50	50	53.2	60.5	106	121	70-130	13	30	
o-Xylene	ug/L	ND	50	50	56.7	60.9	113	122	70-130	7	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	1070	1220	106	121	70-130	13	30	
tert-Amylmethyl ether	ug/L	ND	100	100	112	120	112	120	70-130	7	30	
tert-Butyl Alcohol	ug/L	7.5J	500	500	502	582	99	115	70-130	15	30	
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	50	50	55.4	57.7	111	115	70-130	4	30	
1,2-Dichloroethane-d4 (S)	%						91	93	70-130			
4-Bromofluorobenzene (S)	%						104	104	70-130			
Dibromofluoromethane (S)	%						92	95	70-130			
Toluene-d8 (S)	%						102	99	70-130			

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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9281530

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 TRUCK STOP 07960
Pace Project No.: 9281530

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9281530001	07960 WSW 13	EPA 8011	OEXT/11768	EPA 8011	GCSV/8691
9281530002	07960 WSW 14	EPA 8011	OEXT/11768	EPA 8011	GCSV/8691
9281530003	07960 WSW 8	EPA 8011	OEXT/11768	EPA 8011	GGSV/8691
9281530004	07960 WSW 1	EPA 8011	OEXT/11768	EPA 8011	GCSV/8691
9281530001	07960 WSW 13	EPA 8260	MSV/12943		
9281530002	07960 WSW 14	EPA 8260	MSV/12943		
9281530003	07960 WSW 8	EPA 8260	MSV/12943		
9281530004	07960 WSW 1	EPA 8260	MSV/12943		

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APPENDIX B

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November 23, 2010

Ms. Christine Dupuis
Environmental Compliance Servi
13504 South Point Blvd
Charlotte, NC 28273

RE: Project: 378 Truck Stop 14-214210
Pace Project No.: 9282602

Dear Ms. Dupuis:

Enclosed are the analytical results for sample(s) received by the laboratory on November 19, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9282602

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

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SAMPLE SUMMARY

Project: 378 Truck Stop 14-214210
Pace Project No.: 9282602

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9282602001	Effluent	Water	11/18/10 14:40	11/19/10 16:50
9282602002	Influent	Water	11/18/10 14:45	11/19/10 16:50

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SAMPLE ANALYTE COUNT

Project: 378 Truck Stop 14-214210
Pace Project No.: 9282602

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9282602001	Effluent	EPA 8011	RES	2	PASI-C
		EPA 8260	MCK	20	PASI-C
9282602002	Influent	EPA 8011	RES	2	PASI-C
		EPA 8260	MCK	20	PASI-C

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9282602

Sample: Effluent Lab ID: 9282602001 Collected: 11/18/10 14:40 Received: 11/19/10 16:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	11/22/10 13:35	11/22/10 13:54	106-93-4	
1-Chloro-2-bromopropane (S)	108	%	60-140		1	11/22/10 13:35	11/22/10 13:54	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		11/21/10 12:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		11/21/10 12:04	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		11/21/10 12:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		11/21/10 12:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		11/21/10 12:04	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		11/21/10 12:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		11/21/10 12:04	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		11/21/10 12:04	108-20-3	
Ethanol	ND	ug/L	200	170	1		11/21/10 12:04	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		11/21/10 12:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		11/21/10 12:04	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		11/21/10 12:04	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		11/21/10 12:04	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		11/21/10 12:04	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		11/21/10 12:04	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		11/21/10 12:04	95-47-6	
Dibromofluoromethane (S)	112	%	70-130		1		11/21/10 12:04	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/21/10 12:04	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		11/21/10 12:04	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/21/10 12:04	17060-07-0	

Sample: Influent Lab ID: 9282602002 Collected: 11/18/10 14:45 Received: 11/19/10 16:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	11/22/10 13:35	11/22/10 14:14	106-93-4	
1-Chloro-2-bromopropane (S)	109	%	60-140		1	11/22/10 13:35	11/22/10 14:14	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		11/21/10 12:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		11/21/10 12:29	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		11/21/10 12:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		11/21/10 12:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		11/21/10 12:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		11/21/10 12:29	762-75-4	
1,2-Dichloroethane	**2.5J**	ug/L	5.0	1.3	1		11/21/10 12:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		11/21/10 12:29	108-20-3	
Ethanol	ND	ug/L	200	170	1		11/21/10 12:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		11/21/10 12:29	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9282602

Sample: Influent **Lab ID: 9282602002** Collected: 11/18/10 14:45 Received: 11/19/10 16:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		11/21/10 12:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		11/21/10 12:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		11/21/10 12:29	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		11/21/10 12:29	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		11/21/10 12:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		11/21/10 12:29	95-47-6	
Dibromofluoromethane (S)	111	%	70-130		1		11/21/10 12:29	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/21/10 12:29	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1		11/21/10 12:29	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		11/21/10 12:29	17060-07-0	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9282602

QC Batch: OEXT/11959
QC Batch Method: EPA 8011
Associated Lab Samples: 9282602001, 9282602002

Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP

METHOD BLANK: 531793
Matrix: Water
Associated Lab Samples: 9282602001, 9282602002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	11/22/10 12:54	
1-Chloro-2-bromopropane (S)	%	108	60-140	11/22/10 12:54	

LABORATORY CONTROL SAMPLE & LCSD: 531794 531795

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.29	0.33	0.34	114	116	60-140	4	20	
1-Chloro-2-bromopropane (S)	%				107	111	60-140			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9282602

QC Batch: MSV/13115
QC Batch Method: EPA 8260
Associated Lab Samples: 9282602001, 9282602002
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Oxygenates SC

METHOD BLANK: 531372
Matrix: Water
Associated Lab Samples: 9282602001, 9282602002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	11/21/10 09:06	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	11/21/10 09:06	
Benzene	ug/L	ND	5.0	11/21/10 09:06	
Diisopropyl ether	ug/L	ND	5.0	11/21/10 09:06	
Ethanol	ug/L	ND	200	11/21/10 09:06	
Ethyl-tert-butyl ether	ug/L	ND	10.0	11/21/10 09:06	
Ethylbenzene	ug/L	ND	5.0	11/21/10 09:06	
m&p-Xylene	ug/L	ND	10.0	11/21/10 09:06	
Methyl-tert-butyl ether	ug/L	ND	5.0	11/21/10 09:06	
Naphthalene	ug/L	ND	5.0	11/21/10 09:06	
o-Xylene	ug/L	ND	5.0	11/21/10 09:06	
tert-Amyl Alcohol	ug/L	ND	100	11/21/10 09:06	
tert-Amylmethyl ether	ug/L	ND	10.0	11/21/10 09:06	
tert-Butyl Alcohol	ug/L	ND	100	11/21/10 09:06	
tert-Butyl Formate	ug/L	ND	50.0	11/21/10 09:06	
Toluene	ug/L	ND	5.0	11/21/10 09:06	
1,2-Dichloroethane-d4 (S)	%	95	70-130	11/21/10 09:06	
4-Bromofluorobenzene (S)	%	92	70-130	11/21/10 09:06	
Dibromofluoromethane (S)	%	107	70-130	11/21/10 09:06	
Toluene-d8 (S)	%	98	70-130	11/21/10 09:06	

LABORATORY CONTROL SAMPLE: 531373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.7	103	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1340	134	70-130	L3
Benzene	ug/L	50	51.3	103	70-130	
Diisopropyl ether	ug/L	50	52.8	106	70-130	
Ethanol	ug/L	2000	3040	152	70-130	L3
Ethyl-tert-butyl ether	ug/L	100	105	105	70-130	
Ethylbenzene	ug/L	50	50.3	101	70-130	
m&p-Xylene	ug/L	100	100	100	70-130	
Methyl-tert-butyl ether	ug/L	50	53.2	106	70-130	
Naphthalene	ug/L	50	58.5	117	70-130	
o-Xylene	ug/L	50	52.2	104	70-130	
tert-Amyl Alcohol	ug/L	1000	1280	128	70-130	
tert-Amylmethyl ether	ug/L	100	103	103	70-130	
tert-Butyl Alcohol	ug/L	500	660	132	70-130	L3
tert-Butyl Formate	ug/L	400	394	98	70-130	
Toluene	ug/L	50	51.9	104	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9282602

LABORATORY CONTROL SAMPLE: 531373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			95	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALIFIERS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9282602

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 Truck Stop 14-214210
Pace Project No.: 9282602

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9282602001	**Effluent**	EPA 8011	OEXT/11959	EPA 8011	GCSV/8794
9282602002	**Influent**	EPA 8011	OEXT/11959	EPA 8011	GCSV/8794
9282602001	**Effluent**	EPA 8260	MSV/13115		
9282602002	**Influent**	EPA 8260	MSV/13115		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1407305

Section A Required Client Information:

Company:	ECS
Address:	13504 S. Point Blvd
	Charlotte, NC
Email To:	cdupuis@ecsconsult.com
Phone:	704-583-2711
Fax:	
Requested Due Date/TAT:	24 hour TAT

Section B Required Project Information:

Report To:	Christine Dupuis
Copy To:	
Purchase Order No.:	14-214210
Project Name:	378 Truck Stop
Project Number:	14-214210

Section C Invoice Information:

Attention:	Christina White
Company Name:	ECS
Address:	Agawam, MA
Pace Quote Reference:	
Pace Project Manager:	Kevin Herring
Pace Profile #:	2291-12

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: SC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	TIME	COMPOSITE END/GRAB DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 BTEX, M, N	1,2-DCA	8-Oxygenates	8011 EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Effluent	WT	G			11-18-10	1440		6				X						X	X	X	X		001
2	Influent	WT	G			11-18-10	1445		6				X						X	X	X	X		002
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Requested Analysis Filtered (Y/N)

9282602

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Please report J-values	A. Williamson / ECS	11/18/10	1800	[illegible] / Pace	11/19/10	1320				
	[illegible] / Pace	11/19/10	1650	Justin Motley / Pace CH	11/19/10	1650	2.4	Y	n	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Phil Pike + Aaron Williamson

SIGNATURE of SAMPLER: Aaron Williamson DATE Signed (MM/DD/YY): 11/18/10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Face Analytical

Sample Condition Upon Receipt

Client Name: ECS Project # 9282602

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other______

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other________

Thermometer Used: IR Gun : T809 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract ______0______C

Corrected Cooler Temp.: 2.4 C Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: JMM 11-19-10

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. Effluent Sample has ID on sample that says Effluent-WSW-1. Influent sample has ID on sample that says Influent-WSW-1
-Includes date/time/ID/Analysis Matrix:______		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):______		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:________________ Date/Time:__________

Comments/ Resolution:________________

SCURF Review: KHH Date: 11/19/10 SRF Review: KHH Date: 11/22/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-CHR-CS-003-rev.01

HIPP

GAC Unit Installation and Maintenance

Date: 1/30/20

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 730 Hwy 378 East, Edgefield, SC (Scurry Residence)

GAC Unit Serial Number: Tank #
Controller #

UST 179 DOCKETING

NEW INSTALLATION

Date Installation Completed: ______

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit: X In Need of Repair* ____ Good

Condition of GAC Housing: ____ In Need of Repair* X Good

*Repairs Needed: Electrical outlet has no power. Will need to be replaced.

UST FEB 12 2020 PROGRAM

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION
- ■ Pre-GAC
- ■ Pre-GAC DUP
- ☐ Mid-GAC
- ■ Post-GAC

Comments: Pre and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #59931).

GAC Unit Installation and Maintenance

Date: 1/30/20

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 724 Hwy 378 East, Edgefield, SC (Gordon Residence)

GAC Unit Serial Number: Tank #
Controller #

NEW INSTALLATION

Date Installation Completed: ______

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* X Good

Condition of GAC Housing ______ In Need of Repair* X Good

*Repairs Needed:

UST
FEB 12 2020
PROGRAM

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
☐ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre, Pre GAC DUP, and Post GAC samples were collected as described in the approved Site Specific Work Plan dated June 20th, 2019. Please find the attached Pace Chain of Custody Record. (Pace CA #59931).

GAC Maintenance Report

Permit # 07960

Emerald Job # 276-D

Address	Serial #	Model #	Date Serviced	Condition of Unit	Samples Collected
730 Hwy 378 East, Edgefield, SC Scurry Residence			1/30/20	Needs Repairs [x] Good [ ]	Pre-GAC [x] Dup-GAC [x] Mid-GAC [ ] Post-GAC [x]
724 Hwy 378 East, Edgefield, SC Gordon Residence			1/30/20	Needs Repairs [ ] Good [x]	Pre-GAC [x] Dup-GAC [ ] Mid-GAC [ ] Post-GAC [x]
				Needs Repairs [ ] Good [ ]	Pre-GAC [ ] Dup-GAC [ ] Mid-GAC [ ] Post-GAC [ ]
				Needs Repairs [ ] Good [ ]	Pre-GAC [ ] Dup-GAC [ ] Mid-GAC [ ] Post-GAC [ ]
				Needs Repairs [ ] Good [ ]	Pre-GAC [ ] Dup-GAC [ ] Mid-GAC [ ] Post-GAC [ ]
				Needs Repairs [ ] Good [ ]	Pre-GAC [ ] Dup-GAC [ ] Mid-GAC [ ] Post-GAC [ ]
				Needs Repairs [ ] Good [ ]	Pre-GAC [ ] Dup-GAC [ ] Mid-GAC [ ] Post-GAC [ ]
				Needs Repairs [ ] Good [ ]	Pre-GAC [ ] Dup-GAC [ ] Mid-GAC [ ] Post-GAC

UST
FEB 12 2020
PROGRAM

Notes:

Filter Disposal Method: Landfill

Service/Repairs: The electrical outlet on the Scurry Residence GAC has malfunctioned and will need to be replaced.

Comments: Performed Carbon Filter change at Scurry & Gordon residences. Pre, and Post GAC samples were collected at the Gordon Residence with Pre, Pre Dup and Post GAC samples collected at the Scurry residence.

X

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	SCDHEC	Report To:		Attention:	
Address:	2600 BULL STREET	Copy To:		Company Name:	
	COLUMBIA, SC 29201			Address:	
Email To:		Purchase Order No.:		Pace Quote Reference:	
Phone: 803-898-0589	Fax:	Project Name:	378 Truck Stop	Pace Project Manager:	T. Ezell
Requested Due Date/TAT:		Project Number:	SCDHEC SITE ID# 07960, PACE CA#	Pace Profile #:	

REGULATORY AGENCY

- [ ] NPDES
- [ ] GROUND WATER
- [ ] DRINKING WATER
- [x] UST
- [ ] RCRA
- [ ] OTHER

Site Location STATE: SC

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	↓Analysis Test↓ Y/N	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	07960 SCURRY PRE-GAC	WT	G			1-30-20	1130		9				9						X	X	X		
2	07960 SCURRY PRE GAC DUP	WT	G			↓	1133		9				9						X	X	X		
3	07960 SCURRY POST GAC	WT	G				1140		9				9						X	X	X		
4	07960 GORDON PRE-GAC	WT	G				1250		9				9						X	X	X		
5	07960 GORDON POST GAC	WT	G				1255		9				9						X	X	X		
6	07960 FIELD BLANK	WT	G			↓	1300		9				9						X	X	X		
7	07960 TRIP BLANK	WT	G			1-30-20	—		4				4						X	X	X		
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Cody Kopp / Emerald Inc	1-30-20	1800	[signature]	1/31/20	1350	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cody Kopp

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 1-30-20

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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Huntersville, NC 28078
(704)875-9092

February 11, 2020

UST
FEB 14 2020
PROGRAM

Robert Dunn
SCDHEC
2600 Bull St
Columbia, SC 29201

RE: Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on January 31, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92463309001	**07960 Scurry Pre-Gac**	Water	01/30/20 11:30	01/31/20 17:15
92463309002	**07960 Scurry Pre-Gac Dup**	Water	01/30/20 11:33	01/31/20 17:15
92463309003	**07960 Scurry Post Gac**	Water	01/30/20 11:40	01/31/20 17:15
92463309004	**07960 Gordon Pre-Gac**	Water	01/30/20 12:50	01/31/20 17:15
92463309005	**07960 Gordon Post Gac**	Water	01/30/20 12:55	01/31/20 17:15
92463309006	**07960 Field Blank**	Water	01/30/20 13:00	01/31/20 17:15
92463309007	**07960 Trip Blank**	Water	01/30/20 00:00	01/31/20 17:15

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SAMPLE ANALYTE COUNT

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92463309001	07960 Scurry Pre-Gac	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92463309002	07960 Scurry Pre-Gac Dup	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92463309003	07960 Scurry Post Gac	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92463309004	07960 Gordon Pre-Gac	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92463309005	07960 Gordon Post Gac	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92463309006	07960 Field Blank	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	GAW	10	PASI-C
		EPA 8260D	GAW	11	PASI-C
92463309007	07960 Trip Blank	EPA 524.2	GAW	10	PASI-C
		EPA 8260D	GAW	11	PASI-C

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

Sample: 07960 Scurry Pre-Gac **Lab ID: 92463309001** Collected: 01/30/20 11:30 Received: 01/31/20 17:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/10/20 08:37	02/10/20 19:19	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	98	%	70-130		1	02/10/20 08:37	02/10/20 19:19	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		02/08/20 01:11	71-43-2	
1,2-Dichloroethane	**4.3**	ug/L	0.50	0.13	1		02/08/20 01:11	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		02/08/20 01:11	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		02/08/20 01:11	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		02/08/20 01:11	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		02/08/20 01:11	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		02/08/20 01:11	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		02/08/20 01:11	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		02/08/20 01:11	2199-69-1	
4-Bromofluorobenzene (S)	101	%	70-130		1		02/08/20 01:11	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
tert-Amyl Alcohol	**115**	ug/L	100	53.9	1		02/05/20 12:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		02/05/20 12:30	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		02/05/20 12:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		02/05/20 12:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		02/05/20 12:30	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		02/05/20 12:30	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		02/05/20 12:30	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		02/05/20 12:30	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/05/20 12:30	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		02/05/20 12:30	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/05/20 12:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

Sample: 07960 Scurry Pre-Gac Dup **Lab ID: 92463309002** Collected: 01/30/20 11:33 Received: 01/31/20 17:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/10/20 08:37	02/10/20 19:31	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	92	%	70-130		1	02/10/20 08:37	02/10/20 19:31	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		02/08/20 01:37	71-43-2	
1,2-Dichloroethane	**4.3**	ug/L	0.50	0.13	1		02/08/20 01:37	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		02/08/20 01:37	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		02/08/20 01:37	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		02/08/20 01:37	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		02/08/20 01:37	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		02/08/20 01:37	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		02/08/20 01:37	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%	70-130		1		02/08/20 01:37	2199-69-1	
4-Bromofluorobenzene (S)	108	%	70-130		1		02/08/20 01:37	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
tert-Amyl Alcohol	**121**	ug/L	100	53.9	1		02/05/20 12:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		02/05/20 12:48	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		02/05/20 12:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		02/05/20 12:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		02/05/20 12:48	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		02/05/20 12:48	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		02/05/20 12:48	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		02/05/20 12:48	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/05/20 12:48	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		02/05/20 12:48	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		02/05/20 12:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

Sample: 07960 Scurry Post Gac **Lab ID: 92463309003** Collected: 01/30/20 11:40 Received: 01/31/20 17:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/10/20 08:37	02/10/20 19:42	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	99	%	70-130		1	02/10/20 08:37	02/10/20 19:42	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		02/08/20 02:03	71-43-2	
1,2-Dichloroethane	**4.5**	ug/L	0.50	0.13	1		02/08/20 02:03	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		02/08/20 02:03	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		02/08/20 02:03	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		02/08/20 02:03	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		02/08/20 02:03	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		02/08/20 02:03	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		02/08/20 02:03	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	110	%	70-130		1		02/08/20 02:03	2199-69-1	
4-Bromofluorobenzene (S)	112	%	70-130		1		02/08/20 02:03	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
tert-Amyl Alcohol	**126**	ug/L	100	53.9	1		02/05/20 13:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		02/05/20 13:06	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		02/05/20 13:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		02/05/20 13:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		02/05/20 13:06	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		02/05/20 13:06	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		02/05/20 13:06	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		02/05/20 13:06	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/05/20 13:06	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		02/05/20 13:06	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/05/20 13:06	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

Sample: 07960 Gordon Pre-Gac **Lab ID: 92463309004** Collected: 01/30/20 12:50 Received: 01/31/20 17:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/10/20 08:37	02/10/20 19:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	95	%	70-130		1	02/10/20 08:37	02/10/20 19:54	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		02/08/20 02:29	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		02/08/20 02:29	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		02/08/20 02:29	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		02/08/20 02:29	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		02/08/20 02:29	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		02/08/20 02:29	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		02/08/20 02:29	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		02/08/20 02:29	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	113	%	70-130		1		02/08/20 02:29	2199-69-1	
4-Bromofluorobenzene (S)	112	%	70-130		1		02/08/20 02:29	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		02/07/20 08:51	75-85-4	v1
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		02/07/20 08:51	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		02/07/20 08:51	624-95-3	v1
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		02/07/20 08:51	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		02/07/20 08:51	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		02/07/20 08:51	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		02/07/20 08:51	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		02/07/20 08:51	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		02/07/20 08:51	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		02/07/20 08:51	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		02/07/20 08:51	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

Sample: 07960 Gordon Post Gac **Lab ID: 92463309005** Collected: 01/30/20 12:55 Received: 01/31/20 17:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/10/20 08:37	02/10/20 20:06	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	95	%	70-130		1	02/10/20 08:37	02/10/20 20:06	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		02/08/20 00:44	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		02/08/20 00:44	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		02/08/20 00:44	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		02/08/20 00:44	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		02/08/20 00:44	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		02/08/20 00:44	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		02/08/20 00:44	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		02/08/20 00:44	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		02/08/20 00:44	2199-69-1	
4-Bromofluorobenzene (S)	103	%	70-130		1		02/08/20 00:44	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		02/07/20 09:10	75-85-4	v1
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		02/07/20 09:10	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		02/07/20 09:10	624-95-3	v1
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		02/07/20 09:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		02/07/20 09:10	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		02/07/20 09:10	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		02/07/20 09:10	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		02/07/20 09:10	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/07/20 09:10	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		02/07/20 09:10	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		02/07/20 09:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

Sample: 07960 Field Blank **Lab ID: 92463309006** Collected: 01/30/20 13:00 Received: 01/31/20 17:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/10/20 08:37	02/10/20 20:18	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	91	%	70-130		1	02/10/20 08:37	02/10/20 20:18	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		02/07/20 22:33	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		02/07/20 22:33	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		02/07/20 22:33	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		02/07/20 22:33	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		02/07/20 22:33	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		02/07/20 22:33	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		02/07/20 22:33	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		02/07/20 22:33	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		02/07/20 22:33	2199-69-1	
4-Bromofluorobenzene (S)	106	%	70-130		1		02/07/20 22:33	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		02/04/20 22:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		02/04/20 22:25	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		02/04/20 22:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		02/04/20 22:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		02/04/20 22:25	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		02/04/20 22:25	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		02/04/20 22:25	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		02/04/20 22:25	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		02/04/20 22:25	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		02/04/20 22:25	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		02/04/20 22:25	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

Sample: 07960 Trip Blank **Lab ID: 92463309007** Collected: 01/30/20 00:00 Received: 01/31/20 17:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List	Analytical Method: EPA 524.2								
Benzene	ND	ug/L	0.50	0.25	1		02/07/20 23:00	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		02/07/20 23:00	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		02/07/20 23:00	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		02/07/20 23:00	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		02/07/20 23:00	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		02/07/20 23:00	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		02/07/20 23:00	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		02/07/20 23:00	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		02/07/20 23:00	2199-69-1	
4-Bromofluorobenzene (S)	109	%	70-130		1		02/07/20 23:00	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		02/04/20 22:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		02/04/20 22:43	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		02/04/20 22:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		02/04/20 22:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		02/04/20 22:43	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		02/04/20 22:43	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		02/04/20 22:43	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		02/04/20 22:43	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		02/04/20 22:43	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		02/04/20 22:43	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		02/04/20 22:43	2037-26-5	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

QC Batch: 524010 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 92463309001, 92463309002, 92463309003, 92463309004, 92463309005, 92463309006, 92463309007

METHOD BLANK: 2801580 Matrix: Water
Associated Lab Samples: 92463309001, 92463309002, 92463309003, 92463309004, 92463309005, 92463309006, 92463309007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.13	02/07/20 17:19	
Benzene	ug/L	ND	0.50	0.25	02/07/20 17:19	
Ethylbenzene	ug/L	ND	0.50	0.26	02/07/20 17:19	
m&p-Xylene	ug/L	ND	1.0	0.46	02/07/20 17:19	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.094	02/07/20 17:19	
Naphthalene	ug/L	ND	0.50	0.31	02/07/20 17:19	
o-Xylene	ug/L	ND	0.50	0.25	02/07/20 17:19	
Toluene	ug/L	ND	0.50	0.24	02/07/20 17:19	
1,2-Dichlorobenzene-d4 (S)	%	95	70-130		02/07/20 17:19	
4-Bromofluorobenzene (S)	%	108	70-130		02/07/20 17:19	

LABORATORY CONTROL SAMPLE: 2801581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	22.7	113	70-130	
Benzene	ug/L	20	22.0	110	70-130	
Ethylbenzene	ug/L	20	22.5	112	70-130	
m&p-Xylene	ug/L	40	44.0	110	70-130	
Methyl-tert-butyl ether	ug/L	20	22.9	114	70-130	
Naphthalene	ug/L	20	21.5	107	70-130	
o-Xylene	ug/L	20	22.6	113	70-130	
Toluene	ug/L	20	21.8	109	70-130	
1,2-Dichlorobenzene-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			116	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

QC Batch: 523189 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92463309006, 92463309007

METHOD BLANK: 2797794 Matrix: Water
Associated Lab Samples: 92463309006, 92463309007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	02/04/20 19:20	
Diisopropyl ether	ug/L	ND	1.0	0.22	02/04/20 19:20	
Ethanol	ug/L	ND	200	98.8	02/04/20 19:20	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	02/04/20 19:20	
tert-Amyl Alcohol	ug/L	ND	100	53.9	02/04/20 19:20	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	02/04/20 19:20	
tert-Butyl Alcohol	ug/L	ND	100	27.3	02/04/20 19:20	
tert-Butyl Formate	ug/L	ND	50.0	24.7	02/04/20 19:20	
1,2-Dichloroethane-d4 (S)	%	102	70-130		02/04/20 19:20	
4-Bromofluorobenzene (S)	%	94	70-130		02/04/20 19:20	
Toluene-d8 (S)	%	99	70-130		02/04/20 19:20	

LABORATORY CONTROL SAMPLE: 2797795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1100	110	70-130	
Diisopropyl ether	ug/L	50	52.2	104	70-130	
Ethanol	ug/L	2000	2270	114	70-130	
Ethyl-tert-butyl ether	ug/L	100	97.1	97	70-130	
tert-Amyl Alcohol	ug/L	1000	1020	102	70-130	
tert-Amylmethyl ether	ug/L	100	102	102	70-130	
tert-Butyl Alcohol	ug/L	500	466	93	70-130	
tert-Butyl Formate	ug/L	400	421	105	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 2797797

Parameter	Units	92463322035 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	438	109	39-157	
Diisopropyl ether	ug/L	ND	20	17.6	88	63-144	
Ethanol	ug/L	ND	800	714	89	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	35.2	88	66-137	
tert-Amyl Alcohol	ug/L	ND	400	429	107	54-153	
tert-Amylmethyl ether	ug/L	ND	40	40.0	100	69-139	
tert-Butyl Alcohol	ug/L	ND	200	196	98	43-188	
tert-Butyl Formate	ug/L	ND	160	81.8	51	10-170	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

MATRIX SPIKE SAMPLE: 2797797

Parameter	Units	92463322035 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				83	70-130	
4-Bromofluorobenzene (S)	%				94	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 2797796

Parameter	Units	92463322036 Result	Dup Result	RPD	Max RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	107	90			
4-Bromofluorobenzene (S)	%	94	91			
Toluene-d8 (S)	%	98	98			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

QC Batch: 523200 | Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D | Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92463309001, 92463309002, 92463309003

METHOD BLANK: 2797920 Matrix: Water
Associated Lab Samples: 92463309001, 92463309002, 92463309003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	02/05/20 07:00	
Diisopropyl ether	ug/L	ND	1.0	0.22	02/05/20 07:00	
Ethanol	ug/L	ND	200	98.8	02/05/20 07:00	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	02/05/20 07:00	
tert-Amyl Alcohol	ug/L	ND	100	53.9	02/05/20 07:00	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	02/05/20 07:00	
tert-Butyl Alcohol	ug/L	ND	100	27.3	02/05/20 07:00	
tert-Butyl Formate	ug/L	ND	50.0	24.7	02/05/20 07:00	
1,2-Dichloroethane-d4 (S)	%	96	70-130		02/05/20 07:00	
4-Bromofluorobenzene (S)	%	101	70-130		02/05/20 07:00	
Toluene-d8 (S)	%	102	70-130		02/05/20 07:00	

LABORATORY CONTROL SAMPLE: 2797921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1260	126	70-130	
Diisopropyl ether	ug/L	50	53.7	107	70-130	
Ethanol	ug/L	2000	2220	111	70-130	
Ethyl-tert-butyl ether	ug/L	100	98.9	99	70-130	
tert-Amyl Alcohol	ug/L	1000	1190	119	70-130	
tert-Amylmethyl ether	ug/L	100	109	109	70-130	
tert-Butyl Alcohol	ug/L	500	527	105	70-130	
tert-Butyl Formate	ug/L	400	351	88	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2799413 2799414

Parameter	Units	2628516012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
3,3-Dimethyl-1-Butanol	ug/L	ND	400000	400000	449000	484000	112	121	39-157	7	30	
Diisopropyl ether	ug/L	ND	20000	20000	19400	19500	96	97	63-144	1	30	
Ethanol	ug/L	ND	800000	800000	673000	775000	84	97	39-176	14	30	
Ethyl-tert-butyl ether	ug/L	ND	40000	40000	37200	38000	93	95	66-137	2	30	
tert-Amyl Alcohol	ug/L	ND	400000	400000	425000	446000	106	112	54-153	5	30	
tert-Amylmethyl ether	ug/L	ND	40000	40000	41600	42700	104	107	69-139	3	30	
tert-Butyl Alcohol	ug/L	127000	200000	200000	353000	380000	113	126	43-188	7	30	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2799413 2799414

Parameter	Units	2628516012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
tert-Butyl Formate	ug/L	ND	160000	160000	155000	159000	97	100	10-170	2	30	
1,2-Dichloroethane-d4 (S)	%						91	91	70-130			
4-Bromofluorobenzene (S)	%						95	97	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

QC Batch: 523648 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92463309004, 92463309005

METHOD BLANK: 2799663 Matrix: Water
Associated Lab Samples: 92463309004, 92463309005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	02/07/20 07:01	v1
Diisopropyl ether	ug/L	ND	1.0	0.22	02/07/20 07:01	
Ethanol	ug/L	ND	200	98.8	02/07/20 07:01	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	02/07/20 07:01	
tert-Amyl Alcohol	ug/L	ND	100	53.9	02/07/20 07:01	v1
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	02/07/20 07:01	
tert-Butyl Alcohol	ug/L	ND	100	27.3	02/07/20 07:01	
tert-Butyl Formate	ug/L	ND	50.0	24.7	02/07/20 07:01	
1,2-Dichloroethane-d4 (S)	%	94	70-130		02/07/20 07:01	
4-Bromofluorobenzene (S)	%	100	70-130		02/07/20 07:01	
Toluene-d8 (S)	%	101	70-130		02/07/20 07:01	

LABORATORY CONTROL SAMPLE: 2799664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1220	122	70-130	v1
Diisopropyl ether	ug/L	50	54.5	109	70-130	
Ethanol	ug/L	2000	2210	110	70-130	
Ethyl-tert-butyl ether	ug/L	100	104	104	70-130	
tert-Amyl Alcohol	ug/L	1000	1140	114	70-130	v1
tert-Amylmethyl ether	ug/L	100	109	109	70-130	
tert-Butyl Alcohol	ug/L	500	533	107	70-130	
tert-Butyl Formate	ug/L	400	488	122	70-130	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2799665 2799666

Parameter	Units	92463318032 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
3,3-Dimethyl-1-Butanol	ug/L	ND	4000	4000	4830	4770	121	119	39-157	1	30	v1
Diisopropyl ether	ug/L	53.8	200	200	273	265	109	106	63-144	3	30	
Ethanol	ug/L	ND	8000	8000	8810	8560	110	107	39-176	3	30	
Ethyl-tert-butyl ether	ug/L	ND	400	400	404	386	101	96	66-137	5	30	
tert-Amyl Alcohol	ug/L	2460	4000	4000	7730	7570	132	128	54-153	2	30	v1
tert-Amylmethyl ether	ug/L	ND	400	400	453	440	113	110	69-139	3	30	
tert-Butyl Alcohol	ug/L	312J	2000	2000	3270	3100	148	139	43-188	5	30	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2799665 2799666

Parameter	Units	92463318032 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
tert-Butyl Formate	ug/L	ND	1600	1600	357J	348J	22	22	10-170		30	
1,2-Dichloroethane-d4 (S)	%						97	97	70-130			
4-Bromofluorobenzene (S)	%						99	100	70-130			
Toluene-d8 (S)	%						101	102	70-130			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

QC Batch: 524154 — Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 — Analysis Description: GCS 504 EDB DBCP
Associated Lab Samples: 92463309001, 92463309002, 92463309003, 92463309004, 92463309005, 92463309006

METHOD BLANK: 2802061 — Matrix: Water
Associated Lab Samples: 92463309001, 92463309002, 92463309003, 92463309004, 92463309005, 92463309006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	02/10/20 17:08	
1-Chloro-2-bromopropane (S)	%	121	70-130		02/10/20 17:08	

LABORATORY CONTROL SAMPLE & LCSD: 2802062 — 2802063

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.24	0.20	0.21	83	84	70-130	2	20	
1-Chloro-2-bromopropane (S)	%				92	90	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2802065 — 2802066

Parameter	Units	92463205008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.24	0.24	0.21	0.22	88	88	65-135	1	20	
1-Chloro-2-bromopropane (S)	%						96	97	70-130			

SAMPLE DUPLICATE: 2802064

Parameter	Units	92463205006 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	93	91			

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QUALIFIERS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92463309

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92463309001	**07960 Scurry Pre-Gac**	EPA 504.1	524154	EPA 504.1	524262
92463309002	**07960 Scurry Pre-Gac Dup**	EPA 504.1	524154	EPA 504.1	524262
92463309003	**07960 Scurry Post Gac**	EPA 504.1	524154	EPA 504.1	524262
92463309004	**07960 Gordon Pre-Gac**	EPA 504.1	524154	EPA 504.1	524262
92463309005	**07960 Gordon Post Gac**	EPA 504.1	524154	EPA 504.1	524262
92463309006	**07960 Field Blank**	EPA 504.1	524154	EPA 504.1	524262
92463309001	**07960 Scurry Pre-Gac**	EPA 524.2	524010		
92463309002	**07960 Scurry Pre-Gac Dup**	EPA 524.2	524010		
92463309003	**07960 Scurry Post Gac**	EPA 524.2	524010		
92463309004	**07960 Gordon Pre-Gac**	EPA 524.2	524010		
92463309005	**07960 Gordon Post Gac**	EPA 524.2	524010		
92463309006	**07960 Field Blank**	EPA 524.2	524010		
92463309007	**07960 Trip Blank**	EPA 524.2	524010		
92463309001	**07960 Scurry Pre-Gac**	EPA 8260D	523200		
92463309002	**07960 Scurry Pre-Gac Dup**	EPA 8260D	523200		
92463309003	**07960 Scurry Post Gac**	EPA 8260D	523200		
92463309004	**07960 Gordon Pre-Gac**	EPA 8260D	523648		
92463309005	**07960 Gordon Post Gac**	EPA 8260D	523648		
92463309006	**07960 Field Blank**	EPA 8260D	523189		
92463309007	**07960 Trip Blank**	EPA 8260D	523189		

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Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR) Document No.: F-CAR-CS-033-Rev.06	Document Revised: February 7, 2018 Page 1 of 2 Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐

Sample Condition Upon Receipt

Client Name: SCDHEC

Project #:

WO# : 92463309

92463309

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other: ____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: EP 2/3/20

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 92T058

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp (°C): 3.5 **Correction Factor: Add/Subtract (°C)** 0.0°C

Cooler Temp Corrected (°C): 3.5

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☑ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: ____ Date/Time: ____

Project Manager SCURF Review: AMB **Date:** 2-4-2020

Project Manager SRF Review: AMB **Date:** 2-4-2020

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottle**

Project # **WO#: 92463309**

PM: AMB Due Date: 02/11/20

CLIENT: 92-SCDHEC

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6	3	3										
2																6	3	3										
3																6	3	3										
4																6	3	3										
5																6	3	3										
6																6	3	3	EF 2/3/20									
7																4												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	SCDHEC	Report To:		Attention:	
Address:	2600 BULL STREET	Copy To:		Company Name:	
	COLUMBIA, SC 29201			Address:	
Email To:		Purchase Order No.:		Pace Quote Reference:	
Phone: 803-898-0589	Fax:	Project Name:	378 Truck Stop	Pace Project Manager:	T. Ezell
Requested Due Date/TAT:		Project Number:	SCDHEC SITE ID# 07960, PACE CA#	Pace Profile #:	

REGULATORY AGENCY

- ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
- ☑ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	↓Analysis Test↓ Y/N	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92463309
1	07960 SCURRY PRE-GAC	WT	G			1-30-20	1130		9				9						x	x	x		001
2	07960 SCURRY PRE GAC DUP	WT	G				1133		9				9						x	x	x		002
3	07960 SCURRY POST GAC	WT	G				1140		9				9						x	x	x		003
4	07960 GORDON PRE-GAC	WT	G				1250		9				9						x	x	x		004
5	07960 GORDON POST GAC	WT	G				1255		9				9						x	x	x		005
6	07960 FIELD BLANK	WT	G				1300		9				9						x	x	x		006
7	07960 TRIP BLANK	WT	G			1-30-20	—		4				4						x	x	x		007
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Cody Kopp/Emerald, Inc	1-30-20	1800	[signature]	1-31-20	1350				
	[signature]	1-31-20	1715	[signature] Pace	1/31/20	1715	3.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cody Kopp

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 1-30-20

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

GAC Unit Installation and Maintenance

Date: 4/1/20

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 730 Hwy 378 East, Edgefield, SC (Scurry Residence)

GAC Unit Serial Number: Tank #
Controller #

UST Sawyer APR 15 2020 PROGRAM

UST 171 DOCKETING

NEW INSTALLATION

Date Installation Completed: ______

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit: X In Need of Repair* ____ Good

Condition of GAC Housing: ____ In Need of Repair* X Good

*Repairs Needed: Electrical outlet has no power. Will need to be replaced.

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
■ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #59931).

GAC Unit Installation and Maintenance

Date: 4/1/20

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 724 Hwy 378 East, Edgefield, SC (Gordon Residence)

GAC Unit Serial Number: Tank #
Controller #

NEW INSTALLATION

Date Installation Completed: ____________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* __X__ Good

Condition of GAC Housing ______ In Need of Repair* __X__ Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION ■ Pre-GAC ☐ Pre-GAC DUP ☐ Mid-GAC ■ Post-GAC

Comments: Pre, Pre GAC DUP, and Post GAC samples were collected as described in the approved Site Specific Work Plan dated June 20th, 2019. Please find the attached Pace Chain of Custody Record. (Pace CA #59931).

GAC Maintenance Report

Permit # 07960

Emerald Job # 276-E

Address	Serial #	Model #	Date Serviced	Condition of Unit	Samples Collected
730 Hwy 378 East, Edgefield, SC Scurry Residence			4/1/20	Needs Repairs ☒ Good ☐	Pre-GAC ☒ Dup-GAC ☒ Mid-GAC ☐ Post-GAC ☒
724 Hwy 378 East, Edgefield, SC Gordon Residence			4/1/20	Needs Repairs ☐ Good ☒	Pre-GAC ☒ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☒
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC

Notes:

Filter Disposal Method: Landfill

Service/Repairs: The electrical outlet on the Scurry Residence GAC has malfunctioned and will need to be replaced.

Comments: Performed Carbon Filter change at Scurry & Gordon residences. Pre, and Post GAC samples were collected at the Gordon Residence with Pre, Pre Dup and Post GAC samples collected at the Scurry residence.

X

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	SCDHEC
Address:	2600 BULL STREET
	COLUMBIA, SC 29201
Email To:	dunnre@dhec.s.c.gov
Phone:	803-898-0589 Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Robert Dunn
Copy To:	
Purchase Order No.:	
Project Name:	378 Truck Stop
Project Number:	SCDHEC SITE ID# 07960, PACE CA#

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	T. Ezell
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

MATRIX CODE (see valid codes to left); SAMPLE TYPE (G=GRAB C=COMP)

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	07960 SCURRY PRE-GAC	WT	G			4-1-20	1100		9				9						x	x	x		
2	07960 SCURRY PRE GAC DUP	WT	G				1103		9				9						x	x	x		
3	07960 SCURRY POST GAC	WT	G				1110		9				9						x	x	x		
4	07960 GORDON PRE-GAC	WT	G				1225		9				9						x	x	x		
5	07960 GORDON POST GAC	WT	G				1230		9				9						x	x	x		
6	07960 FIELD BLANK	WT	G				1115		9				9						x	x	x		
7	07960 TRIP BLANK	WT	G			4-1-20	—		6				6						x	x	x		
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Cody Rapp / Emerald Inc	4-1-20	1800	[signature]	4-3-20	1230				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cody Rapp

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 4-1-20

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

April 13, 2020

GAC

Robert Dunn
SCDHEC
2600 Bull St
Columbia, SC 29201

UST
HIPP
APR 15 2020
PROGRAM

RE: Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on April 03, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project:	378 Truck Stop 07960/59931
Pace Project No.:	92472359

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92472359001	**07960 SCURRY PRE-GAC**	Water	04/01/20 11:00	04/03/20 12:30
92472359002	**07960 SCURRY PRE-GAC DUP**	Water	04/01/20 11:03	04/03/20 12:30
92472359003	**07960 SCURRY POST GAC**	Water	04/01/20 11:10	04/03/20 12:30
92472359004	**07960 GORDON PRE-GAC**	Water	04/01/20 12:25	04/03/20 12:30
92472359005	**07960 GORDON POST-GAC**	Water	04/01/20 12:30	04/03/20 12:30
92472359006	**07960 FIELD BLANK**	Water	04/01/20 11:15	04/03/20 12:30
92472359007	**07960 TRIP BLANK**	Water	04/01/20 00:00	04/03/20 12:30

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SAMPLE ANALYTE COUNT

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92472359001	07960 SCURRY PRE-GAC	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92472359002	07960 SCURRY PRE-GAC DUP	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92472359003	07960 SCURRY POST GAC	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92472359004	07960 GORDON PRE-GAC	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92472359005	07960 GORDON POST-GAC	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92472359006	07960 FIELD BLANK	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	SAS	11	PASI-C
92472359007	07960 TRIP BLANK	EPA 524.2	LMB	10	PASI-C
		EPA 8260D	SAS	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

Sample: 07960 SCURRY PRE-GAC **Lab ID: 92472359001** Collected: 04/01/20 11:00 Received: 04/03/20 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	04/09/20 11:15	04/09/20 18:43	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	99	%	70-130		1	04/09/20 11:15	04/09/20 18:43	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		04/07/20 17:37	71-43-2	
1,2-Dichloroethane	**4.5**	ug/L	0.50	0.13	1		04/07/20 17:37	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		04/07/20 17:37	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		04/07/20 17:37	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		04/07/20 17:37	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		04/07/20 17:37	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		04/07/20 17:37	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		04/07/20 17:37	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		04/07/20 17:37	2199-69-1	
4-Bromofluorobenzene (S)	93	%	70-130		1		04/07/20 17:37	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**104**	ug/L	100	53.9	1		04/09/20 20:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		04/09/20 20:48	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		04/09/20 20:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		04/09/20 20:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		04/09/20 20:48	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		04/09/20 20:48	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		04/09/20 20:48	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		04/09/20 20:48	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/09/20 20:48	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		04/09/20 20:48	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		04/09/20 20:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

Sample: 07960 SCURRY PRE-GAC DUP **Lab ID: 92472359002** Collected: 04/01/20 11:03 Received: 04/03/20 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	04/09/20 11:15	04/09/20 18:55	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	70-130		1	04/09/20 11:15	04/09/20 18:55	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		04/07/20 18:04	71-43-2	
1,2-Dichloroethane	**4.3**	ug/L	0.50	0.13	1		04/07/20 18:04	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		04/07/20 18:04	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		04/07/20 18:04	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		04/07/20 18:04	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		04/07/20 18:04	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		04/07/20 18:04	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		04/07/20 18:04	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		04/07/20 18:04	2199-69-1	
4-Bromofluorobenzene (S)	92	%	70-130		1		04/07/20 18:04	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**106**	ug/L	100	53.9	1		04/09/20 21:06	75-85-4	
~~tert-Amylmethyl ether~~	~~ND~~	~~ug/L~~	~~10.0~~	~~3.5~~	~~1~~		~~04/09/20 21:06~~	~~994-05-8~~	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		04/09/20 21:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		04/09/20 21:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		04/09/20 21:06	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		04/09/20 21:06	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		04/09/20 21:06	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		04/09/20 21:06	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/09/20 21:06	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		04/09/20 21:06	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		04/09/20 21:06	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

Sample: 07960 SCURRY POST GAC **Lab ID: 92472359003** Collected: 04/01/20 11:10 Received: 04/03/20 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	04/09/20 11:15	04/09/20 19:07	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	97	%	70-130		1	04/09/20 11:15	04/09/20 19:07	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		04/07/20 18:30	71-43-2	
1,2-Dichloroethane	**4.3**	ug/L	0.50	0.13	1		04/07/20 18:30	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		04/07/20 18:30	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		04/07/20 18:30	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		04/07/20 18:30	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		04/07/20 18:30	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		04/07/20 18:30	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		04/07/20 18:30	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	92	%	70-130		1		04/07/20 18:30	2199-69-1	
4-Bromofluorobenzene (S)	89	%	70-130		1		04/07/20 18:30	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**107**	ug/L	100	53.9	1		04/09/20 21:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		04/09/20 21:24	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		04/09/20 21:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		04/09/20 21:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		04/09/20 21:24	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		04/09/20 21:24	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		04/09/20 21:24	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		04/09/20 21:24	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		04/09/20 21:24	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		04/09/20 21:24	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		04/09/20 21:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

Sample: 07960 GORDON PRE-GAC **Lab ID: 92472359004** Collected: 04/01/20 12:25 Received: 04/03/20 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	04/09/20 11:15	04/09/20 19:19	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	98	%	70-130		1	04/09/20 11:15	04/09/20 19:19	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		04/07/20 14:59	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		04/07/20 14:59	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		04/07/20 14:59	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		04/07/20 14:59	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		04/07/20 14:59	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		04/07/20 14:59	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		04/07/20 14:59	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		04/07/20 14:59	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		04/07/20 14:59	2199-69-1	
4-Bromofluorobenzene (S)	92	%	70-130		1		04/07/20 14:59	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		04/09/20 17:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		04/09/20 17:44	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		04/09/20 17:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		04/09/20 17:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		04/09/20 17:44	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		04/09/20 17:44	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		04/09/20 17:44	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		04/09/20 17:44	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/09/20 17:44	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		04/09/20 17:44	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		04/09/20 17:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

Sample: 07960 GORDON POST-GAC **Lab ID: 92472359005** Collected: 04/01/20 12:30 Received: 04/03/20 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	04/09/20 11:15	04/09/20 19:31	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	99	%	70-130		1	04/09/20 11:15	04/09/20 19:31	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		04/07/20 15:26	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		04/07/20 15:26	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		04/07/20 15:26	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		04/07/20 15:26	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		04/07/20 15:26	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		04/07/20 15:26	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		04/07/20 15:26	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		04/07/20 15:26	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		04/07/20 15:26	2199-69-1	
4-Bromofluorobenzene (S)	92	%	70-130		1		04/07/20 15:26	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		04/09/20 18:02	75-85-4	
~~tert-Amylmethyl ether~~	~~ND~~	~~ug/L~~	~~10.0~~	~~3.5~~	~~1~~		~~04/09/20 18:02~~	~~994-05-8~~	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		04/09/20 18:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		04/09/20 18:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		04/09/20 18:02	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		04/09/20 18:02	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		04/09/20 18:02	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		04/09/20 18:02	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/09/20 18:02	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		04/09/20 18:02	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		04/09/20 18:02	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

Sample: 07960 FIELD BLANK **Lab ID: 92472359006** Collected: 04/01/20 11:15 Received: 04/03/20 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	04/09/20 11:15	04/09/20 19:42	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	96	%	70-130		1	04/09/20 11:15	04/09/20 19:42	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		04/07/20 13:40	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		04/07/20 13:40	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		04/07/20 13:40	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		04/07/20 13:40	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		04/07/20 13:40	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		04/07/20 13:40	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		04/07/20 13:40	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		04/07/20 13:40	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		04/07/20 13:40	2199-69-1	
4-Bromofluorobenzene (S)	92	%	70-130		1		04/07/20 13:40	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		04/09/20 23:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		04/09/20 23:38	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		04/09/20 23:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		04/09/20 23:38	75-65-0	v1
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		04/09/20 23:38	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		04/09/20 23:38	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		04/09/20 23:38	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		04/09/20 23:38	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		04/09/20 23:38	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		04/09/20 23:38	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		04/09/20 23:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

Sample: 07960 TRIP BLANK **Lab ID: 92472359007** Collected: 04/01/20 00:00 Received: 04/03/20 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		04/08/20 05:02	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		04/08/20 05:02	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		04/08/20 05:02	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		04/08/20 05:02	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		04/08/20 05:02	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		04/08/20 05:02	108-88-3	
m&p-Xylene	ND	ug/L	1.0	0.46	1		04/08/20 05:02	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		04/08/20 05:02	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	92	%	70-130		1		04/08/20 05:02	2199-69-1	
4-Bromofluorobenzene (S)	92	%	70-130		1		04/08/20 05:02	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		04/09/20 23:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		04/09/20 23:56	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		04/09/20 23:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		04/09/20 23:56	75-65-0	v1
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		04/09/20 23:56	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		04/09/20 23:56	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		04/09/20 23:56	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		04/09/20 23:56	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/09/20 23:56	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		04/09/20 23:56	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		04/09/20 23:56	2037-26-5	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

QC Batch: 534719 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92472359001, 92472359002, 92472359003, 92472359004, 92472359005, 92472359006

METHOD BLANK: 2853501 Matrix: Water
Associated Lab Samples: 92472359001, 92472359002, 92472359003, 92472359004, 92472359005, 92472359006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.13	04/07/20 10:36	
Benzene	ug/L	ND	0.50	0.25	04/07/20 10:36	
Ethylbenzene	ug/L	ND	0.50	0.26	04/07/20 10:36	
m&p-Xylene	ug/L	ND	1.0	0.46	04/07/20 10:36	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.094	04/07/20 10:36	
Naphthalene	ug/L	ND	0.50	0.31	04/07/20 10:36	
o-Xylene	ug/L	ND	0.50	0.25	04/07/20 10:36	
Toluene	ug/L	ND	0.50	0.24	04/07/20 10:36	
1,2-Dichlorobenzene-d4 (S)	%	94	70-130		04/07/20 10:36	
4-Bromofluorobenzene (S)	%	94	70-130		04/07/20 10:36	

LABORATORY CONTROL SAMPLE: 2853502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	21.3	106	70-130	
Benzene	ug/L	20	18.5	93	70-130	
Ethylbenzene	ug/L	20	17.8	89	70-130	
m&p-Xylene	ug/L	40	35.8	90	70-130	
Methyl-tert-butyl ether	ug/L	20	19.2	96	70-130	
Naphthalene	ug/L	20	18.8	94	70-130	
o-Xylene	ug/L	20	17.5	88	70-130	
Toluene	ug/L	20	17.5	88	70-130	
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

QC Batch: 534863
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92472359007

METHOD BLANK: 2854241
Matrix: Water
Associated Lab Samples: 92472359007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.13	04/08/20 00:12	
Benzene	ug/L	ND	0.50	0.25	04/08/20 00:12	
Ethylbenzene	ug/L	ND	0.50	0.26	04/08/20 00:12	
m&p-Xylene	ug/L	ND	1.0	0.46	04/08/20 00:12	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.094	04/08/20 00:12	
Naphthalene	ug/L	ND	0.50	0.31	04/08/20 00:12	
o-Xylene	ug/L	ND	0.50	0.25	04/08/20 00:12	
Toluene	ug/L	ND	0.50	0.24	04/08/20 00:12	
1,2-Dichlorobenzene-d4 (S)	%	94	70-130		04/08/20 00:12	
4-Bromofluorobenzene (S)	%	92	70-130		04/08/20 00:12	

LABORATORY CONTROL SAMPLE: 2854242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	21.8	109	70-130	
Benzene	ug/L	20	18.4	92	70-130	
Ethylbenzene	ug/L	20	17.7	89	70-130	
m&p-Xylene	ug/L	40	34.1	85	70-130	
Methyl-tert-butyl ether	ug/L	20	18.5	93	70-130	
Naphthalene	ug/L	20	18.6	93	70-130	
o-Xylene	ug/L	20	17.6	88	70-130	
Toluene	ug/L	20	17.4	87	70-130	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

QC Batch: 535171
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92472359006, 92472359007

METHOD BLANK: 2855803 Matrix: Water
Associated Lab Samples: 92472359006, 92472359007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	04/09/20 21:32	
Diisopropyl ether	ug/L	ND	1.0	0.22	04/09/20 21:32	
Ethanol	ug/L	ND	200	98.8	04/09/20 21:32	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	04/09/20 21:32	
tert-Amyl Alcohol	ug/L	ND	100	53.9	04/09/20 21:32	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	04/09/20 21:32	
tert-Butyl Alcohol	ug/L	ND	100	27.3	04/09/20 21:32	v1
tert-Butyl Formate	ug/L	ND	50.0	24.7	04/09/20 21:32	
1,2-Dichloroethane-d4 (S)	%	108	70-130		04/09/20 21:32	
4-Bromofluorobenzene (S)	%	99	70-130		04/09/20 21:32	
Toluene-d8 (S)	%	105	70-130		04/09/20 21:32	

LABORATORY CONTROL SAMPLE: 2855804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1100	110	70-130	
Diisopropyl ether	ug/L	50	60.3	121	70-130	
Ethanol	ug/L	2000	2150	108	70-130	
Ethyl-tert-butyl ether	ug/L	100	118	118	70-130	
tert-Amyl Alcohol	ug/L	1000	1170	117	70-130	
tert-Amylmethyl ether	ug/L	100	112	112	70-130	
tert-Butyl Alcohol	ug/L	500	566	113	70-130	v1
tert-Butyl Formate	ug/L	400	489	122	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2855806

Parameter	Units	92472357005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	452	113	39-157	
Diisopropyl ether	ug/L	ND	20	23.0	115	63-144	
Ethanol	ug/L	ND	800	1000	125	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	43.7	109	66-137	
tert-Amyl Alcohol	ug/L	ND	400	469	117	54-153	
tert-Amylmethyl ether	ug/L	ND	40	45.6	114	69-139	
tert-Butyl Alcohol	ug/L	ND	200	321	160	43-188	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

MATRIX SPIKE SAMPLE: 2855806

Parameter	Units	92472357005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	ND	160	ND	0	10-170	P5
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2855805

Parameter	Units	92472357004 Result	Dup Result	RPD	Max RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	115	104			
4-Bromofluorobenzene (S)	%	99	97			
Toluene-d8 (S)	%	105	104			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

QC Batch: 535174 — Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D — Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92472359001, 92472359002, 92472359003, 92472359004, 92472359005

METHOD BLANK: 2855817 — Matrix: Water
Associated Lab Samples: 92472359001, 92472359002, 92472359003, 92472359004, 92472359005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	04/09/20 16:49	
Diisopropyl ether	ug/L	ND	1.0	0.22	04/09/20 16:49	
Ethanol	ug/L	ND	200	98.8	04/09/20 16:49	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	04/09/20 16:49	
tert-Amyl Alcohol	ug/L	ND	100	53.9	04/09/20 16:49	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	04/09/20 16:49	
tert-Butyl Alcohol	ug/L	ND	100	27.3	04/09/20 16:49	
tert-Butyl Formate	ug/L	ND	50.0	24.7	04/09/20 16:49	
1,2-Dichloroethane-d4 (S)	%	90	70-130		04/09/20 16:49	
4-Bromofluorobenzene (S)	%	102	70-130		04/09/20 16:49	
Toluene-d8 (S)	%	98	70-130		04/09/20 16:49	

LABORATORY CONTROL SAMPLE: 2855818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1090	109	70-130	
Diisopropyl ether	ug/L	50	46.1	92	70-130	
Ethanol	ug/L	2000	1890	94	70-130	
Ethyl-tert-butyl ether	ug/L	100	90.3	90	70-130	
tert-Amyl Alcohol	ug/L	1000	1020	102	70-130	
tert-Amylmethyl ether	ug/L	100	97.7	98	70-130	
tert-Butyl Alcohol	ug/L	500	446	89	70-130	
tert-Butyl Formate	ug/L	400	421	105	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 2855820

Parameter	Units	92472521001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	541	135	39-157	
Diisopropyl ether	ug/L	1.6	20	26.9	126	63-144	
Ethanol	ug/L	ND	800	1020	128	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	47.4	118	66-137	
tert-Amyl Alcohol	ug/L	126	400	647	130	54-153	
tert-Amylmethyl ether	ug/L	ND	40	44.4	111	69-139	
tert-Butyl Alcohol	ug/L	80.5J	200	462	191	43-188	M1

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

MATRIX SPIKE SAMPLE: 2855820

Parameter	Units	92472521001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	ND	160	ND	3	10-170	M1
1,2-Dichloroethane-d4 (S)	%				119	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2855819

Parameter	Units	92472358002 Result	Dup Result	RPD	Max RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	141	125	12	30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	96	113			
4-Bromofluorobenzene (S)	%	104	100			
Toluene-d8 (S)	%	98	104			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

QC Batch: 535319 | Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 | Analysis Description: GCS 504 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92472359001, 92472359002, 92472359003, 92472359004, 92472359005, 92472359006

METHOD BLANK: 2856241 | Matrix: Water

Associated Lab Samples: 92472359001, 92472359002, 92472359003, 92472359004, 92472359005, 92472359006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	0.011	04/09/20 15:35	
1-Chloro-2-bromopropane (S)	%	103	70-130		04/09/20 15:35	

LABORATORY CONTROL SAMPLE & LCSD: 2856242 | 2856243

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.24	0.23	0.24	95	97	70-130	3	20	
1-Chloro-2-bromopropane (S)	%				102	102	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2856244 | 2856245

Parameter	Units	92472360001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.24	0.24	97	96	65-135	1	20	
1-Chloro-2-bromopropane (S)	%						100	99	70-130			

SAMPLE DUPLICATE: 2856246

Parameter	Units	92472360002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	103	100			

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QUALIFIERS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92472359

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92472359001	**07960 SCURRY PRE-GAC**	EPA 504.1	535319	EPA 504.1	535395
92472359002	**07960 SCURRY PRE-GAC DUP**	EPA 504.1	535319	EPA 504.1	535395
92472359003	**07960 SCURRY POST GAC**	EPA 504.1	535319	EPA 504.1	535395
92472359004	**07960 GORDON PRE-GAC**	EPA 504.1	535319	EPA 504.1	535395
92472359005	**07960 GORDON POST-GAC**	EPA 504.1	535319	EPA 504.1	535395
92472359006	**07960 FIELD BLANK**	EPA 504.1	535319	EPA 504.1	535395
92472359001	**07960 SCURRY PRE-GAC**	EPA 524.2	534719		
92472359002	**07960 SCURRY PRE-GAC DUP**	EPA 524.2	534719		
92472359003	**07960 SCURRY POST GAC**	EPA 524.2	534719		
92472359004	**07960 GORDON PRE-GAC**	EPA 524.2	534719		
92472359005	**07960 GORDON POST-GAC**	EPA 524.2	534719		
92472359006	**07960 FIELD BLANK**	EPA 524.2	534719		
92472359007	**07960 TRIP BLANK**	EPA 524.2	534863		
92472359001	**07960 SCURRY PRE-GAC**	EPA 8260D	535174		
92472359002	**07960 SCURRY PRE-GAC DUP**	EPA 8260D	535174		
92472359003	**07960 SCURRY POST GAC**	EPA 8260D	535174		
92472359004	**07960 GORDON PRE-GAC**	EPA 8260D	535174		
92472359005	**07960 GORDON POST-GAC**	EPA 8260D	535174		
92472359006	**07960 FIELD BLANK**	EPA 8260D	535171		
92472359007	**07960 TRIP BLANK**	EPA 8260D	535171		

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WO#:92472359

92472359

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:
Company: SCDHEC
Address: 2600 BULL STREET
COLUMBIA, SC 29201
Email To: dunnr@dhec.s.c.gov
Phone: 803-898-0589 Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To: Robert Dunn
Copy To:
Purchase Order No.:
Project Name: 378 Truck Stop
Project Number: SCDHEC SITE ID# 07960, PACE CA#

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: T. Ezell
Pace Profile #:

REGULATORY AGENCY
NPDES / GROUND WATER / DRINKING WATER
☑ UST / RCRA / OTHER
Site Location STATE: SC

Section D Required Client Information

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92472359
1	07960 SCURRY PRE-GAC	WT	G			4-1-20	1100		9				9					X	X	X		001
2	07960 SCURRY PRE GAC DUP	WT	G				1103		9				9					X	X	X		002
3	07960 SCURRY POST GAC	WT	G				1110		9				9					X	X	X		003
4	07960 GORDON PRE-GAC	WT	G				1225		9				9					X	X	X		004
5	07960 GORDON POST GAC	WT	G				1230		9				9					X	X	X		005
6	07960 FIELD BLANK	WT	G				1115		9				9					X	X	X		006
7	07960 TRIP BLANK	WT	G			4-1-20	—		6				6					X	X	X		007
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature] Env. Inc	4-1-20	1800	[signature]	4-3-20	1230				
	[signature]	4-3-20	1600	[signature] PACE	4-3-20	1600	2.2	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Cody [illegible]
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 4-1-20

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

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UST 17 DOCKETING

June 10, 2020

UST JUN 12 2020 PROGRAM

Robert Dunn
SCDHEC
2600 Bull St
Columbia, SC 29201

RE: Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on June 03, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Coleman, Midlands Environmental Consultants, Inc.
Kyle Pudney, Midlands Environmental Consultants, Inc.

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CERTIFICATIONS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92480281001	**07960 SCURRY PRE-GAC**	Water	06/02/20 10:45	06/03/20 14:53
92480281002	**07960 SCURRY PRE-GAC DUP**	Water	06/02/20 10:47	06/03/20 14:53
92480281003	**07960 SCURRY POST-GAC**	Water	06/02/20 10:50	06/03/20 14:53
92480281004	**07960 GORDON PRE-GAC**	Water	06/02/20 10:15	06/03/20 14:53
92480281005	**07960 GORDON POST-GAC**	Water	06/02/20 10:20	06/03/20 14:53
92480281006	**07960 FIELD BLANK**	Water	06/02/20 11:00	06/03/20 14:53
92480281007	**07960 TRIP BLANK**	Water	06/02/20 00:00	06/03/20 14:53

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SAMPLE ANALYTE COUNT

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92480281001	**07960 SCURRY PRE-GAC**	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	CL	11	PASI-C
92480281002	**07960 SCURRY PRE-GAC DUP**	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	CL	11	PASI-C
92480281003	**07960 SCURRY POST-GAC**	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	CL	11	PASI-C
92480281004	**07960 GORDON PRE-GAC**	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	CL	11	PASI-C
92480281005	**07960 GORDON POST-GAC**	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	CL	11	PASI-C
92480281006	**07960 FIELD BLANK**	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	SAS	11	PASI-C
92480281007	**07960 TRIP BLANK**	EPA 524.2	LMB	11	PASI-C
		EPA 8260D	SAS	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92480281001	**07960 SCURRY PRE-GAC**					
EPA 524.2	1,2-Dichloroethane	5.2	ug/L	0.50	06/04/20 19:28	
EPA 8260D	tert-Amyl Alcohol	180	ug/L	100	06/08/20 16:31	
EPA 8260D	Diisopropyl ether	0.25J	ug/L	1.0	06/08/20 16:31	
92480281002	**07960 SCURRY PRE-GAC DUP**					
EPA 524.2	1,2-Dichloroethane	5.4	ug/L	0.50	06/04/20 19:54	
EPA 8260D	tert-Amyl Alcohol	164	ug/L	100	06/08/20 15:56	
92480281003	**07960 SCURRY POST-GAC**					
EPA 524.2	1,2-Dichloroethane	5.4	ug/L	0.50	06/04/20 20:20	
EPA 8260D	tert-Amyl Alcohol	171	ug/L	100	06/08/20 16:14	
EPA 8260D	Diisopropyl ether	0.22J	ug/L	1.0	06/08/20 16:14	
92480281004	**07960 GORDON PRE-GAC**					
EPA 524.2	1,2-Dichloroethane	2.3	ug/L	0.50	06/05/20 17:44	
EPA 524.2	Methyl-tert-butyl ether	0.24J	ug/L	0.50	06/05/20 17:44	
EPA 8260D	Methyl-tert-butyl ether	0.29J	ug/L	1.0	06/08/20 15:20	
92480281005	**07960 GORDON POST-GAC**					
EPA 524.2	1,2-Dichloroethane	1.6	ug/L	0.50	06/09/20 19:08	

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PROJECT NARRATIVE

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

Method: **EPA 504.1**
Description: 504 GCS EDB and DBCP
Client: SCDHEC
Date: June 10, 2020

General Information:
6 samples were analyzed for EPA 504.1 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 504.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 545751

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92480281002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2905677)
  - 1,2-Dibromoethane (EDB)

R1: RPD value was outside control limits.

- MSD (Lab ID: 2905678)
  - 1,2-Dibromoethane (EDB)

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

Method: **EPA 524.2**
Description: 524.2 MSV SC List
Client: SCDHEC
Date: June 10, 2020

General Information:
7 samples were analyzed for EPA 524.2 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

Method: **EPA 8260D**
Description: 8260 MSV Low Level SC
Client: SCDHEC
Date: June 10, 2020

General Information:
7 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

Sample: 07960 SCURRY PRE-GAC **Lab ID: 92480281001** Collected: 06/02/20 10:45 Received: 06/03/20 14:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	06/08/20 08:13	06/08/20 15:26	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	110	%	70-130		1	06/08/20 08:13	06/08/20 15:26	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		06/04/20 19:28	71-43-2	
1,2-Dichloroethane	**5.2**	ug/L	0.50	0.13	1		06/04/20 19:28	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		06/04/20 19:28	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		06/04/20 19:28	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		06/04/20 19:28	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		06/04/20 19:28	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		06/04/20 19:28	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		06/04/20 19:28	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		06/04/20 19:28	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		06/04/20 19:28	2199-69-1	
4-Bromofluorobenzene (S)	92	%	70-130		1		06/04/20 19:28	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**180**	ug/L	100	53.9	1		06/08/20 16:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		06/08/20 16:31	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		06/08/20 16:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		06/08/20 16:31	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		06/08/20 16:31	762-75-4	
Diisopropyl ether	**0.25J**	ug/L	1.0	0.22	1		06/08/20 16:31	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		06/08/20 16:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		06/08/20 16:31	1634-04-4	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		06/08/20 16:31	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		06/08/20 16:31	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		06/08/20 16:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

Sample: 07960 SCURRY PRE-GAC DUP **Lab ID: 92480281002** Collected: 06/02/20 10:47 Received: 06/03/20 14:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	06/08/20 08:13	06/08/20 16:30	106-93-4	M1,R1
Surrogates									
1-Chloro-2-bromopropane (S)	119	%	70-130		1	06/08/20 08:13	06/08/20 16:30	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		06/04/20 19:54	71-43-2	
1,2-Dichloroethane	**5.4**	ug/L	0.50	0.13	1		06/04/20 19:54	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		06/04/20 19:54	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		06/04/20 19:54	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		06/04/20 19:54	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		06/04/20 19:54	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		06/04/20 19:54	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		06/04/20 19:54	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		06/04/20 19:54	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		06/04/20 19:54	2199-69-1	
4-Bromofluorobenzene (S)	93	%	70-130		1		06/04/20 19:54	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**164**	ug/L	100	63.9	1		06/08/20 15:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		06/08/20 15:56	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		06/08/20 15:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		06/08/20 15:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		06/08/20 15:56	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		06/08/20 15:56	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		06/08/20 15:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		06/08/20 15:56	1634-04-4	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		06/08/20 15:56	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		06/08/20 15:56	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		06/08/20 15:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

Sample: 07960 SCURRY POST-GAC **Lab ID: 92480281003** Collected: 06/02/20 10:50 Received: 06/03/20 14:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	06/08/20 08:13	06/08/20 17:05	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	97	%	70-130		1	06/08/20 08:13	06/08/20 17:05	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		06/04/20 20:20	71-43-2	
1,2-Dichloroethane	**5.4**	ug/L	0.50	0.13	1		06/04/20 20:20	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		06/04/20 20:20	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		06/04/20 20:20	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		06/04/20 20:20	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		06/04/20 20:20	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		06/04/20 20:20	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		06/04/20 20:20	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		06/04/20 20:20	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		06/04/20 20:20	2199-69-1	
4-Bromofluorobenzene (S)	90	%	70-130		1		06/04/20 20:20	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**171**	ug/L	100	53.9	1		06/08/20 16:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		06/08/20 16:14	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		06/08/20 16:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		06/08/20 16:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		06/08/20 16:14	762-75-4	
Diisopropyl ether	**0.22J**	ug/L	1.0	0.22	1		06/08/20 16:14	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		06/08/20 16:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		06/08/20 16:14	1634-04-4	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		1		06/08/20 16:14	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		06/08/20 16:14	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		06/08/20 16:14	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

Sample: 07960 GORDON PRE-GAC **Lab ID: 92480281004** Collected: 06/02/20 10:15 Received: 06/03/20 14:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	06/08/20 08:13	06/08/20 17:17	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	97	%	70-130		1	06/08/20 08:13	06/08/20 17:17	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		06/05/20 17:44	71-43-2	
1,2-Dichloroethane	**2.3**	ug/L	0.50	0.13	1		06/05/20 17:44	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		06/05/20 17:44	100-41-4	
Methyl-tert-butyl ether	**0.24J**	ug/L	0.50	0.094	1		06/05/20 17:44	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		06/05/20 17:44	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		06/05/20 17:44	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		06/05/20 17:44	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		06/05/20 17:44	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		06/05/20 17:44	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	95	%	70-130		1		06/05/20 17:44	2199-69-1	
4-Bromofluorobenzene (S)	93	%	70-130		1		06/05/20 17:44	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		06/08/20 15:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		06/08/20 15:20	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		06/08/20 15:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		06/08/20 15:20	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		06/08/20 15:20	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		06/08/20 15:20	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		06/08/20 15:20	637-92-3	
Methyl-tert-butyl ether	**0.29J**	ug/L	1.0	0.28	1		06/08/20 15:20	1634-04-4	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		06/08/20 15:20	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		06/08/20 15:20	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		06/08/20 15:20	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

Sample: 07960 GORDON POST-GAC **Lab ID: 92480281005** Collected: 06/02/20 10:20 Received: 06/03/20 14:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	06/08/20 08:13	06/08/20 17:28	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	70-130		1	06/08/20 08:13	06/08/20 17:28	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		06/09/20 19:08	71-43-2	
1,2-Dichloroethane	**1.6**	ug/L	0.50	0.13	1		06/09/20 19:08	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		06/09/20 19:08	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		06/09/20 19:08	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		06/09/20 19:08	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		06/09/20 19:08	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		06/09/20 19:08	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		06/09/20 19:08	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		06/09/20 19:08	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		06/09/20 19:08	2199-69-1	
4-Bromofluorobenzene (S)	99	%	70-130		1		06/09/20 19:08	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		06/08/20 15:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		06/08/20 15:38	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		06/08/20 15:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		06/08/20 15:38	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		06/08/20 15:38	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		06/08/20 15:38	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		06/08/20 15:38	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		06/08/20 15:38	1634-04-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/08/20 15:38	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		06/08/20 15:38	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		06/08/20 15:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

Sample: 07960 FIELD BLANK **Lab ID: 92480281006** Collected: 06/02/20 11:00 Received: 06/03/20 14:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	06/08/20 08:13	06/08/20 17:40	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	70-130		1	06/08/20 08:13	06/08/20 17:40	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		06/05/20 14:13	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		06/05/20 14:13	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		06/05/20 14:13	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		06/05/20 14:13	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		06/05/20 14:13	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		06/05/20 14:13	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		06/05/20 14:13	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		06/05/20 14:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		06/05/20 14:13	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		06/05/20 14:13	2199-69-1	
4-Bromofluorobenzene (S)	92	%	70-130		1		06/05/20 14:13	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		06/09/20 01:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		06/09/20 01:19	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		06/09/20 01:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		06/09/20 01:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		06/09/20 01:19	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		06/09/20 01:19	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		06/09/20 01:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		06/09/20 01:19	1634-04-4	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/09/20 01:19	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		06/09/20 01:19	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		06/09/20 01:19	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

Sample: 07960 TRIP BLANK **Lab ID: 92480281007** Collected: 06/02/20 00:00 Received: 06/03/20 14:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		06/05/20 14:40	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		06/05/20 14:40	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		06/05/20 14:40	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		06/05/20 14:40	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		06/05/20 14:40	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		06/05/20 14:40	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		06/05/20 14:40	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		06/05/20 14:40	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		06/05/20 14:40	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		06/05/20 14:40	2199-69-1	
4-Bromofluorobenzene (S)	90	%	70-130		1		06/05/20 14:40	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		06/09/20 01:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		06/09/20 01:01	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		06/09/20 01:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		06/09/20 01:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		06/09/20 01:01	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		06/09/20 01:01	108-20-3	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		06/09/20 01:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		06/09/20 01:01	1634-04-4	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/09/20 01:01	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		06/09/20 01:01	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		06/09/20 01:01	2037-26-5	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

QC Batch: 545203 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92480281001, 92480281002, 92480281003

METHOD BLANK: 2902915 Matrix: Water
Associated Lab Samples: 92480281001, 92480281002, 92480281003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.13	06/04/20 11:33	
Benzene	ug/L	ND	0.50	0.25	06/04/20 11:33	
Ethylbenzene	ug/L	ND	0.50	0.26	06/04/20 11:33	
m&p-Xylene	ug/L	ND	1.0	0.46	06/04/20 11:33	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.094	06/04/20 11:33	
Naphthalene	ug/L	ND	0.50	0.31	06/04/20 11:33	
o-Xylene	ug/L	ND	0.50	0.25	06/04/20 11:33	
Toluene	ug/L	ND	0.50	0.24	06/04/20 11:33	
Xylene (Total)	ug/L	ND	0.50	0.25	06/04/20 11:33	
1,2-Dichlorobenzene-d4 (S)	%	96	70-130		06/04/20 11:33	
4-Bromofluorobenzene (S)	%	92	70-130		06/04/20 11:33	

LABORATORY CONTROL SAMPLE: 2902916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.0	100	70-130	
Benzene	ug/L	20	19.5	98	70-130	
Ethylbenzene	ug/L	20	20.3	101	70-130	
m&p-Xylene	ug/L	40	40.7	102	70-130	
Methyl-tert-butyl ether	ug/L	20	18.4	92	70-130	
Naphthalene	ug/L	20	19.3	97	70-130	
o-Xylene	ug/L	20	20.2	101	70-130	
Toluene	ug/L	20	19.4	97	70-130	
Xylene (Total)	ug/L	60	61.0	102		
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

QC Batch: 545520
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92480281004, 92480281006, 92480281007

METHOD BLANK: 2904582 Matrix: Water
Associated Lab Samples: 92480281004, 92480281006, 92480281007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.13	06/05/20 13:21	
Benzene	ug/L	ND	0.50	0.25	06/05/20 13:21	
Ethylbenzene	ug/L	ND	0.50	0.26	06/05/20 13:21	
m&p-Xylene	ug/L	ND	1.0	0.46	06/05/20 13:21	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.094	06/05/20 13:21	
Naphthalene	ug/L	ND	0.50	0.31	06/05/20 13:21	
o-Xylene	ug/L	ND	0.50	0.25	06/05/20 13:21	
Toluene	ug/L	ND	0.50	0.24	06/05/20 13:21	
Xylene (Total)	ug/L	ND	0.50	0.25	06/05/20 13:21	
1,2-Dichlorobenzene-d4 (S)	%	97	70-130		06/05/20 13:21	
4-Bromofluorobenzene (S)	%	92	70-130		06/05/20 13:21	

LABORATORY CONTROL SAMPLE: 2904583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	18.3	91	70-130	
Benzene	ug/L	20	18.6	93	70-130	
Ethylbenzene	ug/L	20	18.5	92	70-130	
m&p-Xylene	ug/L	40	37.9	95	70-130	
Methyl-tert-butyl ether	ug/L	20	19.1	96	70-130	
Naphthalene	ug/L	20	18.2	91	70-130	
o-Xylene	ug/L	20	18.9	95	70-130	
Toluene	ug/L	20	18.0	90	70-130	
Xylene (Total)	ug/L	60	56.9	95		
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

QC Batch: 546206
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92480281005

METHOD BLANK: 2907732   Matrix: Water
Associated Lab Samples: 92480281005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.13	06/09/20 18:15	
Benzene	ug/L	ND	0.50	0.25	06/09/20 18:15	
Ethylbenzene	ug/L	ND	0.50	0.26	06/09/20 18:15	
m&p-Xylene	ug/L	ND	1.0	0.46	06/09/20 18:15	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.094	06/09/20 18:15	
Naphthalene	ug/L	ND	0.50	0.31	06/09/20 18:15	
o-Xylene	ug/L	ND	0.50	0.25	06/09/20 18:15	
Toluene	ug/L	ND	0.50	0.24	06/09/20 18:15	
Xylene (Total)	ug/L	ND	0.50	0.25	06/09/20 18:15	
1,2-Dichlorobenzene-d4 (S)	%	99	70-130		06/09/20 18:15	
4-Bromofluorobenzene (S)	%	100	70-130		06/09/20 18:15	

LABORATORY CONTROL SAMPLE: 2907733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	19.1	96	70-130	
Benzene	ug/L	20	17.6	88	70-130	
Ethylbenzene	ug/L	20	18.5	93	70-130	
m&p-Xylene	ug/L	40	37.8	95	70-130	
Methyl-tert-butyl ether	ug/L	20	19.0	95	70-130	
Naphthalene	ug/L	20	19.4	97	70-130	
o-Xylene	ug/L	20	18.7	94	70-130	
Toluene	ug/L	20	18.4	92	70-130	
Xylene (Total)	ug/L	60	56.6	94		
1,2-Dichlorobenzene-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

QC Batch: 545785 | Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D | Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92480281001, 92480281002, 92480281003, 92480281004, 92480281005

METHOD BLANK: 2905771 Matrix: Water

Associated Lab Samples: 92480281001, 92480281002, 92480281003, 92480281004, 92480281005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	06/08/20 11:29	
Diisopropyl ether	ug/L	ND	1.0	0.22	06/08/20 11:29	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	06/08/20 11:29	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.28	06/08/20 11:29	
tert-Amyl Alcohol	ug/L	ND	100	53.9	06/08/20 11:29	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	06/08/20 11:29	
tert-Butyl Alcohol	ug/L	ND	100	27.3	06/08/20 11:29	
tert-Butyl Formate	ug/L	ND	50.0	24.7	06/08/20 11:29	
1,2-Dichloroethane-d4 (S)	%	96	70-130		06/08/20 11:29	
4-Bromofluorobenzene (S)	%	105	70-130		06/08/20 11:29	
Toluene-d8 (S)	%	100	70-130		06/08/20 11:29	

LABORATORY CONTROL SAMPLE: 2905772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1070	107	70-130	
Diisopropyl ether	ug/L	50	42.7	85	70-130	
Ethyl-tert-butyl ether	ug/L	100	92.0	92	70-130	
Methyl-tert-butyl ether	ug/L	50	49.1	98	70-130	
tert-Amyl Alcohol	ug/L	1000	1150	115	70-130	
tert-Amylmethyl ether	ug/L	100	103	103	70-130	
tert-Butyl Alcohol	ug/L	500	457	91	70-130	
tert-Butyl Formate	ug/L	400	404	101	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2905773 2905774

Parameter	Units	92480347031 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	441	450	110	112	39-157	2	30	
Diisopropyl ether	ug/L	ND	20	20	17.6	17.9	88	90	63-144	2	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	38.6	39.3	96	98	66-137	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.6	21.2	108	106	54-156	2	30	
tert-Amyl Alcohol	ug/L	ND	400	400	449	450	112	113	54-153	0	30	
tert-Amylmethyl ether	ug/L	ND	40	40	41.6	42.1	104	105	69-139	1	30	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2905773 2905774

Parameter	Units	92480347031 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
tert-Butyl Alcohol	ug/L	ND	200	200	197	209	98	104	43-188	6	30	
tert-Butyl Formate	ug/L	ND	160	160	145	117	91	73	10-170	21	30	
1,2-Dichloroethane-d4 (S)	%						99	97	70-130			
4-Bromofluorobenzene (S)	%						97	102	70-130			
Toluene-d8 (S)	%						99	97	70-130			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

QC Batch: 545787
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92480281006, 92480281007

METHOD BLANK: 2905781 Matrix: Water
Associated Lab Samples: 92480281006, 92480281007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	06/08/20 23:31	
Diisopropyl ether	ug/L	ND	1.0	0.22	06/08/20 23:31	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	06/08/20 23:31	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.28	06/08/20 23:31	
tert-Amyl Alcohol	ug/L	ND	100	53.9	06/08/20 23:31	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	06/08/20 23:31	
tert-Butyl Alcohol	ug/L	ND	100	27.3	06/08/20 23:31	
tert-Butyl Formate	ug/L	ND	50.0	24.7	06/08/20 23:31	
1,2-Dichloroethane-d4 (S)	%	101	70-130		06/08/20 23:31	
4-Bromofluorobenzene (S)	%	96	70-130		06/08/20 23:31	
Toluene-d8 (S)	%	103	70-130		06/08/20 23:31	

LABORATORY CONTROL SAMPLE: 2905782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1120	112	70-130	
Diisopropyl ether	ug/L	50	51.4	103	70-130	
Ethyl-tert-butyl ether	ug/L	100	100	100	70-130	
Methyl-tert-butyl ether	ug/L	50	51.4	103	70-130	
tert-Amyl Alcohol	ug/L	1000	1120	112	70-130	
tert-Amylmethyl ether	ug/L	100	102	102	70-130	
tert-Butyl Alcohol	ug/L	500	526	105	70-130	
tert-Butyl Formate	ug/L	400	404	101	70-130	
1,2-Dichloroethane-d4 (S)	%			86	70-130	
4-Bromofluorobenzene (S)	%			93	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2905783 2905784

Parameter	Units	92480105018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	447	425	112	106	39-157	5	30	
Diisopropyl ether	ug/L	ND	20	20	23.8	22.4	119	112	63-144	6	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	43.5	41.5	109	104	66-137	5	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.7	20.9	108	105	54-156	4	30	
tert-Amyl Alcohol	ug/L	ND	400	400	435	420	109	105	54-153	3	30	
tert-Amylmethyl ether	ug/L	ND	40	40	42.0	41.0	105	103	69-139	3	30	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2905783 2905784

Parameter	Units	92480105018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
tert-Butyl Alcohol	ug/L	ND	200	200	247	250	123	125	43-188	1	30	
tert-Butyl Formate	ug/L	ND	160	160	128	102	80	63	10-170	23	30	
1,2-Dichloroethane-d4 (S)	%						102	103	70-130			
4-Bromofluorobenzene (S)	%						102	100	70-130			
Toluene-d8 (S)	%						101	101	70-130			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

QC Batch: 545751 | Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 | Analysis Description: GCS 504 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92480281001, 92480281002, 92480281003, 92480281004, 92480281005, 92480281006

METHOD BLANK: 2905673 | Matrix: Water

Associated Lab Samples: 92480281001, 92480281002, 92480281003, 92480281004, 92480281005, 92480281006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	0.011	06/08/20 14:50	
1-Chloro-2-bromopropane (S)	%	104	70-130		06/08/20 14:50	

LABORATORY CONTROL SAMPLE & LCSD: 2905674 | 2905675

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.26	0.28	105	113	70-130	6	20	
1-Chloro-2-bromopropane (S)	%				102	110	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2905677 | 2905678

Parameter	Units	92480281002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.96	0.27	390	108	65-135	113	20	M1,R1
1-Chloro-2-bromopropane (S)	%						101	105	70-130			

SAMPLE DUPLICATE: 2905676

Parameter	Units	92480281001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	110	99			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1 RPD value was outside control limits.

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 Truck Stop 07960/59931
Pace Project No.: 92480281

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92480281001	07960 SCURRY PRE-GAC	EPA 504.1	545751	EPA 504.1	545815
92480281002	07960 SCURRY PRE-GAC DUP	EPA 504.1	545751	EPA 504.1	545815
92480281003	07960 SCURRY POST-GAC	EPA 504.1	545751	EPA 504.1	545815
92480281004	07960 GORDON PRE-GAC	EPA 504.1	545751	EPA 504.1	545815
92480281005	07960 GORDON POST-GAC	EPA 504.1	545751	EPA 504.1	545815
92480281006	07960 FIELD BLANK	EPA 504.1	545751	EPA 504.1	545815
92480281001	07960 SCURRY PRE-GAC	EPA 524.2	545203		
92480281002	07960 SCURRY PRE-GAC DUP	EPA 524.2	545203		
92480281003	07960 SCURRY POST-GAC	EPA 524.2	545203		
92480281004	07960 GORDON PRE-GAC	EPA 524.2	545520		
92480281005	07960 GORDON POST-GAC	EPA 524.2	546206		
92480281006	07960 FIELD BLANK	EPA 524.2	545520		
92480281007	07960 TRIP BLANK	EPA 524.2	545520		
92480281001	07960 SCURRY PRE-GAC	EPA 8260D	545785		
92480281002	07960 SCURRY PRE-GAC DUP	EPA 8260D	545785		
92480281003	07960 SCURRY POST-GAC	EPA 8260D	545785		
92480281004	07960 GORDON PRE-GAC	EPA 8260D	545785		
92480281005	07960 GORDON POST-GAC	EPA 8260D	545785		
92480281006	07960 FIELD BLANK	EPA 8260D	545787		
92480281007	07960 TRIP BLANK	EPA 8260D	545787		

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Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐

Sample Condition Upon Receipt

Client Name: SCDHEC

Project #: WO# : 92480281

92480281

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: 6-4-20AMP

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☑ Yes ☐ No ☐ N/A

Thermometer: ☐ IR Gun ID: 92T061

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp (°C): 5.5 **Correction Factor: Add/Subtract (°C)** +0.1

Cooler Temp Corrected (°C): 5.6

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	10.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: ____________ Date/Time: ____________

Project Manager SCURF Review: ____________ **Date:** ____________

Project Manager SRF Review: ____________ **Date:** ____________

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottle**

Project # WO#: 92480281

PM: AMB Due Date: 06/10/20

CLIENT: 92-SCDHEC

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6	3											
2																6	3											
3																6	3											
4																6	3											
5																6	3											
6																6	3											
7																4												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

ection A
Required Client Information:
mpany: SCDHEC
ldress: 2600 BULL STREET
COLUMBIA, SC 29201
nail To:
one: 803-898-0589 Fax:
quested Due Date/TAT:

Section B
Required Project Information:
Report To: Robert Dunn
Copy To:
Purchase Order No.:
Project Name: 378 Truck Stop
Project Number: SCDHEC SITE ID# 07960,PACE CA#59931

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: T. Ezell
Pace Profile #:

Page: of

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER
Site Location STATE: SC

Section D Required Client Information

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

92480281

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	TIME	COMPOSITE END/GRAB DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	07960 SCURRY PRE-GAC	WT	G			6-2-20	1045		9				6		3				x	x	x		001
2	07960 SCURRY PRE GAC DUP	WT	G				1047		9				6		3				x	x	x		002
3	07960 SCURRY POST GAC	WT	G				1050		9				6		3				x	x	x		003
4	07960 GORDON PRE-GAC	WT	G				1015		9				6		3				x	x	x		004
5	07960 GORDON POST GAC	WT	G				1020		9				6		3				x	x	x		005
6	07960 FIELD BLANK	WT	G				1100		9				6		3				x	x	x		006
7	07960 TRIP BLANK	WT	G			6-2-20	—		4				4						x	x			007
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Lee Stogner	6-2-20	1535	J. Granger PACE	6/3	1229				
	J. Granger PACE	6/3	1453	[illegible] PACE	6/3/20	1453	5.6	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lee Stogner
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 6-2-20

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

dhec

Healthy People. Healthy Communities.

AUG 2 6 2020

UST DOCKETING 173

RONNY LOWDER
EMERALD INC
PO BOX 3050
SUMTER SC 29151

Re: **Site Specific Work Plan Request for Multiple GAC Change and Groundwater Sample Collection**
378 Truck Stop, 731 HWY 378, Edgefield, SC
UST Permit #07960
Release reported October 3, 1974
GAC Filter Change Report received June 12, 2020
Edgefield County

Dear Mr. Lowder:

The Underground Storage Tank (UST) Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report. The report indicates the presence of chemicals of concern (CoCs) in the groundwater.

To ensure a clean source of drinking water, in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of a Granular Activated Carbon (GAC) Unit sampling and filter change event as outlined in the current revision of the UST Quality Assurance Program Plan (QAPP) is necessary. **Implementation of 6 filter changes and groundwater samplings should occur at 2-month intervals.** This scope of work should be conducted on the Scurry water supply well located at 730 Highway 378 East, and the Gordon water supply well located at 724 Highway 378 East, in accordance with the UST QAPP and in compliance with all applicable regulations. Pre-and post- GAC samples should be collected prior to the filter change and analyzed for BTEX, Mtbe, Naphthalene, 1,2-DCA, the Oxygenates, Ethanol, and EDB. The Scurry GAC electric work and trencher price should be added to this cost agreement. Analyses should be in accordance with Appendix F of the QAPP to include duplicate samples, field and trip blanks. A copy of the DHEC QAPP for the UST Management Division is available at
http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance.

Please complete and submit the Site-Specific Work Plan and Cost Proposal to the UST Division within fifteen (15) days of the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. Please note that technical and financial pre-approval from DHEC must be issued before work begins.

On all correspondence regarding this site, please reference UST Permit #07960. If you have questions or need additional information, feel free to contact me by telephone at (803) 898-0586, by fax at (803) 898-0673, or by e-mail to hippsc@dhec.sc.gov.

Sincerely,

Sawyer Hipp

Sawyer Hipp, Hydrogeologist
Corrective Action & Quality Assurance Section
UST Management Division
Bureau of Land and Waste Management

enc: Site Information

cc: Brad Baldwin, UST Management Division (w/o enc)
Technical File (w/o enc)

UST 174 T DOCKETING

Emerald, Inc.

CONSULTING AND ENGINEERING
SERVICES IN ENVIRONMENTAL AFFAIRS

2520 TAHOE DRIVE • POST OFFICE BOX 3050 • SUMTER, SOUTH CAROLINA 29151

WEBSITE. www emeraldinc-us com

TELEPHONE (803) 469-5454
FAX (803) 469-5465

September 10, 2020

UST Sawyer SEP 14 2020 DIVISION

Sawyer Hipp, Hydrogeologist
Corrective Action and Quality Assurance Section
Underground Storage Tank Management
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, SC 29201

Site Specific Work Plan
378 Truck Stop
731 Highway 378, Edgefield, South Carolina
SCDHEC Site ID #07960

Mr. Hipp,

Please find the attached Site Specific Work Plan, proposed costs and example chain of custody for one year of Granular Activated Carbon (GAC) filter changes at two month intervals and sampling. In addition, proposed costs for the rewiring of the Scurry GAC is included. It appears that the former contractor wired the GAC unit to the well. This is not up to code and is currently not functioning. These GACs are associated with the Scurry residence located at 730 Highway 378 East and Gordon residence located at 724 Highway 378 East in Edgefield, SC. If you have any questions or concerns please feel free to contact Emerald, Inc. at 803-469-5454.

Sincerely,

William C. McClary, P.G.
Project Manager

Attachments
Appendix A - Site Specific Work Plan
Appendix B - Example Chain of Custody
Appendix C - Proposed Costs
Appendix D – Site Map

Appendix A

Site Specific Work Plan

Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

To Sawyer Hipp, Hydrogeologist (SCDHEC Project Manager)
From Chad McClary, P G (Contractor Project Manager)
Contractor Emerald, Inc UST Contractor Certification Number 67

Facility Name 378 Truck Stop UST Permit # 07960
Facility Address 731 Highway 378, Edgefield, SC
Responsible Party ______ Phone ______
RP Address ______
Property Owner (if different) ______
Property Owner Address ______
Current Use of Property ______

Scope of Work (Please check all that apply)

- ☐ IGWA
- ☐ Tier II
- ☑ Groundwater Sampling
- ☑ GAC
- ☐ Tier I
- ☐ Monitoring Well Installation
- ☐ Other ______

Analyses (Please check all that apply)

Groundwater/Surface Water

- ☐ BTEXNMDCA (8260B)
- ☐ Lead
- ☐ BOD
- ☐ Methane
- ☐ Oxygenates (8260B)
- ☐ 8 RCRA Metals
- ☐ Nitrate
- ☐ Ethanol
- ☐ EDB (8011)
- ☐ TPH
- ☐ Sulfate
- ☐ Dissolved Iron
- ☐ PAH (8270D)
- ☐ pH
- ☐ Other ______

Drinking Water Supply Wells

- ☑ BTEXNMDCA (524 2)
- ☐ Mecury (200 8 245 1 or 245 2)
- ☑ EDB (504 1)
- ☐ Oxygenates & Ethanol (8260B)
- ☐ RCRA Metals (200 8)

Soil

- ☐ BTEXNM
- ☐ Lead
- ☐ RCRA Metals
- ☐ TPH-DRO (3550B/8015B)
- ☐ Grain Size
- ☐ PAH
- ☐ Oil & Grease (9071)
- ☐ TPH-GRO (5030B/8015B)
- ☐ TOC

Air

- ☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected)

______ Soil 4 (24) Water Supply Wells ______ Air 1 (6) Field Blank
______ Monitoring Wells ______ Surface Water 1 (6) Duplicate 1 (6) Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.
# of shallow points proposed ______ Estimated Footage ______ feet per point
# of deep points proposed ______ Estimated Footage ______ feet per point
Field Screening Methodology ______

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map
# of shallow wells ______ Estimated Footage ______ feet per point
# of deep wells ______ Estimated Footage ______ feet per point
# of recovery wells ______ Estimated Footage ______ feet per point
Comments, if warranted

UST Permit # 07960 Facility Name 378 Truck Stop

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up 15 Field Work Completion 360

Report Submittal 365 # of Copies Provided to Property Owners ______

Aquifer Characterization

Pump Test ☐ Slug Test ☐ (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal

Soil ______ Tons Purge Water ______ Gallons

Drilling Fluids ______ Gallons Free-Phase Product ______ Gallons

Additional Details For This Scope of Work

For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc

The subject site (378 Truck Stop) is located at 731 Highway 378 outside Edgefield, SC Two nearby water supply wells (Scurry and Gordon) have been impacted by petroleum contamination and are attached to granular activated carbon (GAC) filters to aid in removal of petroleum contaminants. Prior to conducting a carbon change, Emerald, Inc will collect samples from the Scurry and Gordon WSWs Pre and Post GAC Repairs are also proposed for the Scurry GAC, it is currently without power A previous contractor connected to the well pump for a power source and it is currently not supplying power to the unit Attached are proposed costs to properly restore power In addition to the quote 1 mob and 5 hours of service call is proposed The samples will be collected after opening the spigot for approximately 10 minutes or until the well pump turns on

This work will be conducted under PO #4600702267

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)

Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below

Name of Laboratory ______

SCDHEC Certification Number ______

Name of Laboratory Director ______

____ Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below

Name of Well Driller ______

SCLLR Certification Number ______

____ Other variations from ACQAP. Please describe below

Attachments

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location
2. Prepare a site base map This map must be accurately scaled, but does not need to be surveyed The map must include the following

North Arrow	Proposed monitoring well locations
Location of property lines	Legend with facility name and address, UST permit number, and bar scale
Location of buildings	Streets or highways (indicate names and numbers)
Previous soil sampling locations	Location of all present and former ASTs and USTs
Previous monitoring well locations	Location of all potential receptors
Proposed soil boring locations	

3. Assessment Component Cost Agreement, SCDHEC Form D-3664

Appendix B

Example Chain of Custody

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page:	of

Section A
Required Client Information:

Company:	SCDHEC
Address:	2600 BULL STREET
	COLUMBIA, SC 29201
Email To:	
Phone: 803-898-0589	Fax:
Requested Due Date/TAT:	

Section B
Required Project Information:

Report To:	Robert Dunn
Copy To:	
Purchase Order No.:	
Project Name:	378 Truck Stop
Project Number:	SCDHEC SITE ID# 07960,PACE CA#

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	T. Ezell
Pace Profile #:	

REGULATORY AGENCY

- ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
- ☑ UST ☐ RCRA ☐ OTHER _______

Site Location STATE:	SC

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	TIME	COMPOSITE END/GRAB DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	07960 SCURRY PRE-GAC	WT	G						9				6		3				X	X	X											
2	07960 SCURRY PRE GAC DUP	WT	G						9				6		3				X	X	X											
3	07960 SCURRY POST GAC	WT	G						9				6		3				X	X	X											
4	07960 GORDON PRE-GAC	WT	G						9				6		3				X	X	X											
5	07960 GORDON POST GAC	WT	G						9				6		3				X	X	X											
6	07960 FIELD BLANK	WT	G						9				6		3				X	X	X											
7	07960 TRIP BLANK	WT	G						4				4						X	X												
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			

SAMPLER NAME AND SIGNATURE

		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	**DATE Signed (MM/DD/YY):**				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Appendix C

Proposed Costs

ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
CONTRACT PO#4600702267

dhec
Healthy People. Healthy Communities.

Facility Name: 378 Truck Stop

UST Permit #: 07960 **Cost Agreement #:** ____________

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
A1. Site-specific Work Plan	1	each	$150.00	$150.00
4. **Mob/Demob**				
B1. Personnel	7	each	$200.00	$1,400.00
18. **Miscellaneous (attach receipts)**	See Reciepts			$572.88
Service charge to remove and replace carbon/gravel filter in large operating units		each	$1,750.00	$0.00
Removal, cleaning, refurbishment and storage - of large capacity GAC units		each	$1,200.00	$0.00
Service calls to reset, repair, other service of GAC	5	hours	$48.00	$240.00
Lock assemblage for existing GAC housing to include lock and all necessary hardware and labor		each	$15.00	$0.00
sample collection measurements to include, duplicate, field/trip blanks are included	24	each	$35.00	$840.00
Emergency Bottoled Water		per week	$500.00	$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**				
A1. New GAC System Installation		each	$2,800.00	$0.00
BB. Refurbished GAC Sys. Install		each	$1,600.00	$0.00
C1. Filter replacement/removal	12	each	$675.00	$8,100.00
DD. GAC System removal, cleaning, & refurbishment		each	$550.00	$0.00
E1. GAC System housing		each	$275.00	$0.00
F. In-line particulate filter		each	$200.00	$0.00
G1. Additional piping, wiring & fittings		foot	$1.50	$0.00
TOTAL				$11,302.88

378 Truck Stop GAC

Braxton
Electrical Services, Inc.

18 Edgewood Drive | Sumter, SC 29150 | (803) 773-0250

INDUSTRIAL • COMMERCIAL • RESIDENTIAL

JOB WORK ORDER

3388

Lawrence W. Braxton, Owner | Licensed & Insured

DATE OF ORDER

CUSTOMER'S ORDER NO.	PHONE	MECHANIC	HELPER	STARTING DATE 8-24-20

BILL TO Emerold

ORDER TAKEN BY

ADDRESS 730 Hwy 378 E Truck Stop

☐ DAY WORK
☑ CONTRACT
☐ EXTRA

CITY Edgefield SC

JOB NAME AND LOCATION

JOB PHONE

DESCRIPTION OF WORK

Install nessary Conduit & wire for filter System power.

PAID
27891
9/4/20

5000

Pay 9/4/20

DATE COMPLETED 8-24-20	WORK ORDERED BY	TOTAL MATERIALS	105 00
☐ NO ONE HOME	☐ TOTAL AMOUNT DUE FOR ABOVE WORK: OR ☐ TOTAL BILLING TO BE MAILED AFTER COMPLETION OF WORK	TOTAL LABOR	385 00
I HEREBY ACKNOWLEDGE THE SATISFACTORY COMPLETION OF THE ABOVE DESCRIBED WORK.		TAX	
SIGNATURE L Braxton		TOTAL AMOUNT	$490 00

Thank You For Your Business.

OK

Black Oak Equipment Rental

861 E. Liberty St. Sumter, SC 29153 • 803-775-9903
1526 Leesburg Rd. Columbia, SC 29209 • 803-708-4480

Owner: Black Oak Equipment Rental, LLC
Customer: Emerald
PO# ______
Address: ______

Place of Use: ______
Address: ______

Contact: ______
Phone: ______
Drivers Lic # ______

Date: 8/24/20
Rental Price: 75.00
Delivery: ______

Consumables ______
Sales Tax (8%) 6.00
SC Rental Surcharge Tax (2.5%) 1.88
Total Before Fuel 82.88
Fuel Charge ______
Repairs ______
Total: ______
PAID ______ **Need to Bill** X
Need to Pay on Drop-Off ______ **Paid on Drop-Off** ______

EQUIPMENT RENTED

	ITEM	IN	SERIAL NUMBER	DESCRIPTION	HOURS	ENDING HOURS
1.	[illegible]	☐				
2.	EZ Trench	☑				
3.		☐				
4.		☐				
5.		☐				

Fire Extinguisher **Yes** **No**

Rental Rate: Check One

1/2 Day ______ (4 hours)
Daily ______ (daily rate includes 8 machine hours)
Weekly ______ (Weekly rate includes 40 machine hours)
Monthly ______ (Monthly rate includes 160 machine hours)
Rates allow for 8 machine hours per 24-hour day, 40 machine hours in a 7-day week, or 160 machine hours in 4 weeks.

Term:
From: Date 8/24/20 Time 3:35 To: Date 8/25/20 Time 3:35
Actual Turn In: Date 8/25/20 Time 7:55

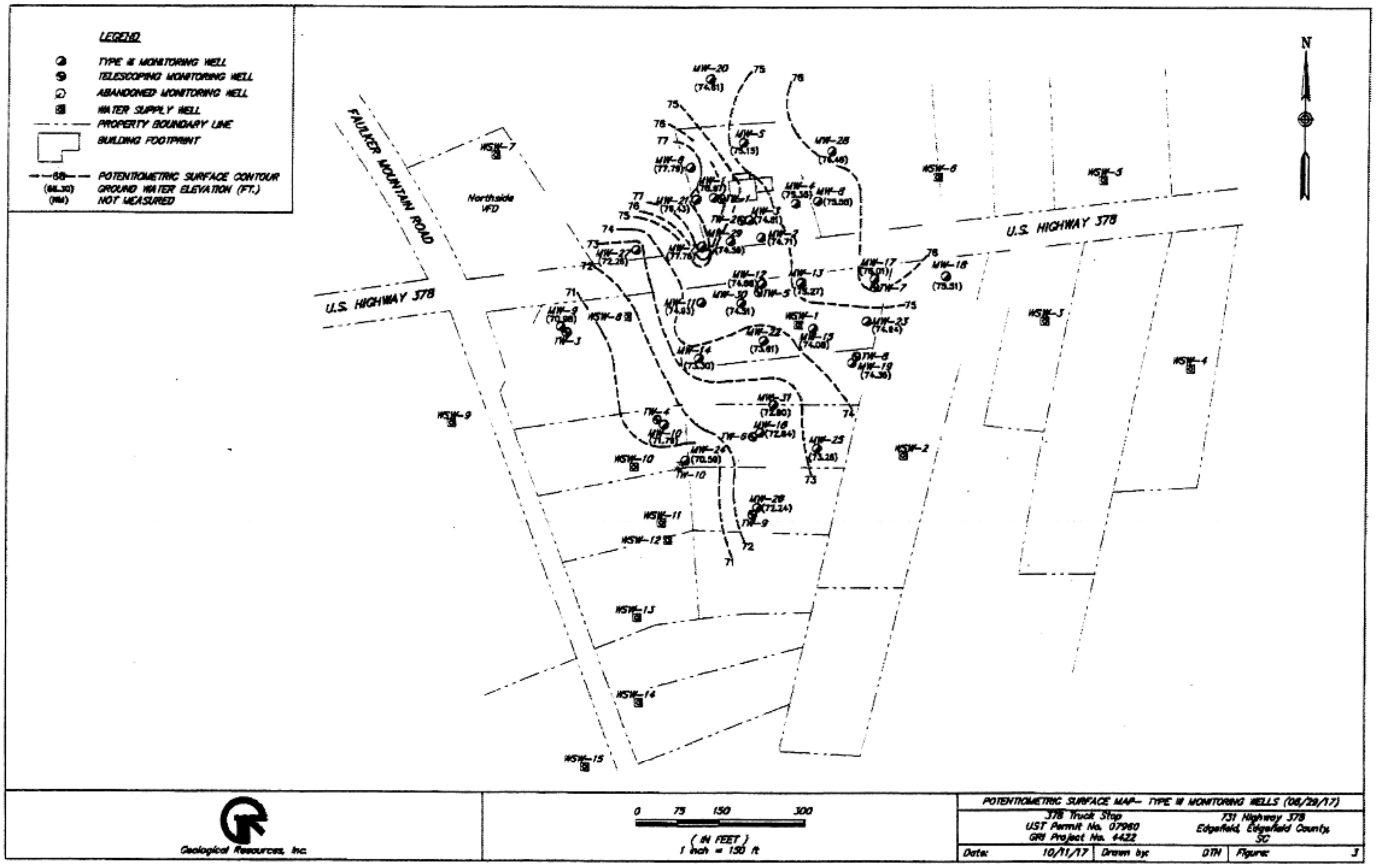
Note: If machine is brought back late, additional rent will be due. The rate will be based on the daily rate. If the machine is 1 to 4 hours late or has 1 to 4 machine hours over the allowed, then additional rent will be half of a day's rate. 4 to 8 hours late or 4 to 8 machine hours over the allowed, an additional charge equal to the daily rental rate will be charged regardless of the term of the original contract. Additional rent will be due for every day late thereafter equal to the daily rental rate.

I have read and understand the terms and conditions on both sides of this agreement and certify that those printed on the other side are agreed to as if printed above my signature. There are no oral or other representations not included herein.

Customer/Lessee's Signature **X** [signature]

Appendix D

Site Map



LEGEND
TYPE III MONITORING WELL
TELESCOPING MONITORING WELL
ABANDONED MONITORING WELL
WATER SUPPLY WELL
PROPERTY BOUNDARY LINE
BUILDING FOOTPRINT
POTENTIOMETRIC SURFACE CONTOUR
GROUND WATER ELEVATION (FT.)
NOT MEASURED
FAULKNER MOUNTAIN ROAD
U.S. HIGHWAY 378
Northside VFD
N
Geological Resources, Inc.
0 75 150 300
(IN FEET)
1 inch = 150 ft
POTENTIOMETRIC SURFACE MAP– TYPE III MONITORING WELLS (06/29/17)
378 Truck Stop
UST Permit No. 07960
GRI Project No. 4422
731 Highway 378
Edgefield, Edgefield County, SC
Date: 10/11/17
Drawn by: DTH
Figure: 3

dhec

Healthy People. Healthy Communities.

UST 175 DOCKETING

DEC 0 4 2020

RONNY LOWDER
EMERALD INC
PO BOX 3050
SUMTER SC 29151

Re: Site Specific Work Plan Approval and Multiple GAC Changes and Groundwater Sampling Notice to Proceed
378 Truck Stop, 731 HWY 378, Edgefield, SC
UST Permit # 07960
Emerald CA# 62801; Pace CA# 92802
IFB-5400017572-4/25/19-EMW; PO #4600702267
Release reported October 3, 1974
SSWP received September 14, 2020
Colleton County

Dear Mr. Lowder:

Under the terms and conditions of the referenced contract, collection of pre- and post- GAC unit groundwater samples has been approved for the listed Property Owner(s) water supply well(s)

Property Owner	Address	Telephone Number
Hattie Scurry (Scurry Well)	730 HWY 378 E, Edgefield, SC	N/A
Sidney Gordon (Gordon Well)	724 HWY 378 E, Edgefield, SC	N/A

Pre- and post- GAC unit groundwater samples should be collected and submitted to Pace Analytical Services for analysis. The subsequent GAC filter changes and sampling events should be conducted on a two (2) month basis. The GAC Maintenance Reports and invoices for each event should be submitted to the UST Division by the following dates **December 30, 2020, February 28, 2021, April 30, 2021, June 30, 2021, August 30, 2021, October 30, 2021**. Please notify the UST Project manager at least four (4) days prior to the initiation of the approved site activities.

This facility has been assigned individual Cost Agreement (CA) numbers as listed above. Please reference the CA numbers listed above and PO #4600702267 on the invoice submitted for payment. Emerald, Inc. should complete the work in accordance with the contract specifications and established schedule. The work must be conducted as outlined in the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulation.

On all correspondence or inquiries regarding this directive, please reference UST Permit #15438, and the Cost agreements above. If you have any questions or need further assistance, please contact me at (803) 898-0586 or by email at hippsc@dhec.sc.gov. If you have any contract specific questions, please contact Brad Baldwin by phone (803) 898-0605 or email baldwiba@dhec.sc.gov.

Sincerely,

Brad Baldwin, GIT, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Brad Baldwin, UST Management Division (w/o enc)
Robert Dunn, UST Management Division (w/o enc)
Sawyer Hipp, UST Management Division (w/o enc)
Angela Baioni, Pace Analytical Services, 9800 Kincey Avenue, Ste 100, Huntersville NC 28078 (w/ Pace CA)
Technical File (w/ enc)

JOB WORK ORDER
3388

Braxton
Electrical Services, Inc.

18 Edgewood Drive | Sumter, SC 29150 | (803) 773-0250
INDUSTRIAL • COMMERCIAL • RESIDENTIAL

Lawrence W. Braxton, Owner | Licensed & Insured

DATE OF ORDER				
CUSTOMER'S ORDER NO.	PHONE	MECHANIC	HELPER	STARTING DATE 8-24-20
BILL TO Emerold				ORDER TAKEN BY
ADDRESS 730 HWY 378 E Truck Stop				☐ DAY WORK ☑ CONTRACT ☐ EXTRA
CITY Edgefield SC.				
JOB NAME AND LOCATION				
		JOB PHONE		

DESCRIPTION OF WORK

Install nessary Conduit & wire
for filter System power.

PAID
2789
9/4/20

5000

Pay 9/4/20

DATE COMPLETED	WORK ORDERED BY	TOTAL MATERIALS	105 00
8-24-20			
☐ NO ONE HOME	☐ TOTAL AMOUNT DUE FOR ABOVE WORK: OR ☐ TOTAL BILLING TO BE MAILED AFTER COMPLETION OF WORK	TOTAL LABOR	385 00
I HEREBY ACKNOWLEDGE THE SATISFACTORY COMPLETION OF THE ABOVE DESCRIBED WORK.		TAX	
SIGNATURE L Braxton		TOTAL AMOUNT	$490 00

Thank You For Your Business.

OK

[redacted]

Owner: **Black Oak Equipment Rental, LLC**
Customer: Emerald
PO#
Address:

Place of Use:
Address:

Contact:
Phone:
Drivers Lic #

Date: 8/24/20
Rental Price: 75.00
Delivery:

Consumables
Sales Tax (8%) 6.00
SC Rental Surcharge Tax (2.5%) 1.88
Total Before Fuel 82.88
Fuel Charge
Repairs
Total:
PAID ______ **Need to Bill** X
Need to Pay on Drop-Off ______ **Paid on Drop-Off** ______ CC

EQUIPMENT RENTED

	ITEM	IN	SERIAL NUMBER	DESCRIPTION	HOURS	ENDING HOURS
1.	~~[illegible]~~	☐				
2.	EZ Trench	☑				
3.		☐				
4.		☐				
5.		☐				

Fire Extinguisher **Yes** **No**

<u>Rental Rate: Check One</u>
1/2 Day ______ (4 hours)
Daily ______ (daily rate includes 8 machine hours)
Weekly ______ (Weekly rate includes 40 machine hours)
Monthly ______ (Monthly rate includes 160 machine hours)
Rates allow for 8 machine hours per 24-hour day, 40 machine hours in a 7-day week, or 160 machine hours in 4 weeks.

<u>Term:</u>
From: Date 8/24/20 Time 3:35 To: Date 8/25/20 Time 3:35
Actual Turn In: Date 8/25/20 Time 7:55

<u>**Note:**</u> If machine is brought back late, additional rent will be due. The rate will be based on the daily rate. If the machine is 1 to 4 hours late or has 1 to 4 machine hours over the allowed, then additional rent will be half of a day's rate. 4 to 8 hours late or 4 to 8 machine hours over the allowed, an additional charge equal to the daily rental rate will be charged regardless of the term of the original contract. Additional rent will be due for every day late thereafter equal to the daily rental rate.

I have read and understand the terms and conditions on both sides of this agreement and certify that those printed on the other side are agreed to as if printed above my signature. There are no oral or other representations not included herein.

Customer/Lessee's Signature **X** [signature]

Approved Cost Agreement 62801

Facility: 07960 378 TRUCK STOP

HIPPSC

PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		A1	SITE SPECIFIC WORK PLAN	1.0000	$150.000	150.00
04 MOB/DEMOB						
		B1	PERSONNEL	7.0000	$200.000	1,400.00
18 MISCELLANEOUS						
			SAMPLE COLLECTION MEASUREMENTS TO INCLUDE	24.0000	$35.000	840.00
			SERVOCE CA;;S TO RESET, REPAIR, OTHER SERVICI	5.0000	$48.000	240.00
24 GAC SYSTEM						
		C1	FILTER REPLACEMENT/REMOVAL	12.0000	$675.000	8,100.00
					Total Amount	10,730.00

Approved Cost Agreement 62802

Facility: 07960 378 TRUCK STOP

HIPPSC

PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
K ANALYSES						
	DW DRINKING WATER	14	BTEXNM+1,2 DCA (524.2) WSW	42.0000	$42.000	1,764.00
		15	OXYGENATES & ETHANOL 8260B WSW	42.0000	$20.000	840.00
		16	EDB (504.1) WSW	36.0000	$22.000	792.00
				Total Amount		3,396.00

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www.pacelabs.com

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

January 07, 2021

UST
Hupp
JAN 08 2021
PROGRAM

UST
DOCKETING

Robert Dunn
SCDHEC
2600 Bull St
Columbia, SC 29201

RE: Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on December 30, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Coleman, Midlands Environmental Consultants, Inc.
Kyle Pudney, Midlands Environmental Consultants, Inc.

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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92514324001	**07960 SCURRY PRE-GAC**	Water	12/28/20 12:10	12/30/20 12:15
92514324002	**07960 SCURRY PRE-GAC DUP**	Water	12/28/20 12:12	12/30/20 12:15
92514324003	**07960 SCURRY POST GAC**	Water	12/28/20 12:15	12/30/20 12:15
92514324004	**07960 GORDON PRE GAC**	Water	12/28/20 11:00	12/30/20 12:15
92514324005	**07960 GORDON POST GAC**	Water	12/28/20 11:05	12/30/20 12:15
92514324006	**07960 FIELD BLANK**	Water	12/28/20 11:10	12/30/20 12:15
92514324007	**07960 TRIP BLANK**	Water	12/28/20 00:00	12/30/20 12:15

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92514324001	07960 SCURRY PRE-GAC	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	BSH	11	PASI-C
92514324002	07960 SCURRY PRE-GAC DUP	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	BSH	11	PASI-C
92514324003	07960 SCURRY POST GAC	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	BSH	11	PASI-C
92514324004	07960 GORDON PRE GAC	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	BSH	11	PASI-C
92514324005	07960 GORDON POST GAC	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	BSH	11	PASI-C
92514324006	07960 FIELD BLANK	EPA 504.1	JMS1	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	BSH	11	PASI-C
92514324007	07960 TRIP BLANK	EPA 524.2	LMB	11	PASI-C
		EPA 8260D	BSH	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92514324001	**07960 SCURRY PRE-GAC**					
EPA 524.2	1,2-Dichloroethane	5.4	ug/L	0.50	01/01/21 03:17	
EPA 8260D	tert-Amyl Alcohol	162	ug/L	100	12/31/20 03:08	
EPA 8260D	tert-Butyl Alcohol	31.1J	ug/L	100	12/31/20 03:08	
92514324002	**07960 SCURRY PRE-GAC DUP**					
EPA 524.2	1,2-Dichloroethane	5.6	ug/L	0.50	01/01/21 03:43	
EPA 8260D	tert-Amyl Alcohol	161	ug/L	100	12/31/20 02:50	
EPA 8260D	tert-Butyl Alcohol	32.6J	ug/L	100	12/31/20 02:50	
EPA 8260D	Diisopropyl ether	0.24J	ug/L	1.0	12/31/20 02:50	
92514324003	**07960 SCURRY POST GAC**					
EPA 524.2	1,2-Dichloroethane	2.2	ug/L	0.50	01/01/21 04:09	
EPA 8260D	tert-Amyl Alcohol	91.1J	ug/L	100	12/31/20 01:55	
EPA 8260D	tert-Butyl Alcohol	34.6J	ug/L	100	12/31/20 01:55	
92514324004	**07960 GORDON PRE GAC**					
EPA 524.2	1,2-Dichloroethane	2.8	ug/L	0.50	01/01/21 04:35	
EPA 524.2	Methyl-tert-butyl ether	0.26J	ug/L	0.50	01/01/21 04:35	
92514324005	**07960 GORDON POST GAC**					
EPA 524.2	1,2-Dichloroethane	0.31J	ug/L	0.50	01/01/21 05:01	
92514324007	**07960 TRIP BLANK**					
EPA 524.2	Toluene	0.36J	ug/L	0.50	01/04/21 15:45	C0

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Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

Method: **EPA 504.1**
Description: 504 GCS EDB and DBCP
Client: SCDHEC
Date: January 07, 2021

General Information:
6 samples were analyzed for EPA 504.1 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 504.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

Method: EPA 524.2
Description: 524.2 MSV SC List
Client: SCDHEC
Date: January 07, 2021

General Information:
7 samples were analyzed for EPA 524.2 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 590510

C0: Result confirmed by second analysis.
- 07960 TRIP BLANK (Lab ID: 92514324007)
  - Toluene

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

Method: **EPA 8260D**
Description: 8260 MSV Low Level SC
Client: SCDHEC
Date: January 07, 2021

General Information:
7 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 590137

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92514324001

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 3116408)
  - tert-Butyl Formate
- MSD (Lab ID: 3116409)
  - tert-Butyl Formate

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

Sample: 07960 SCURRY PRE-GAC **Lab ID: 92514324001** Collected: 12/28/20 12:10 Received: 12/30/20 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	01/06/21 10:28	01/06/21 13:12	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	98	%	70-130		1	01/06/21 10:28	01/06/21 13:12	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		01/01/21 03:17	71-43-2	
1,2-Dichloroethane	**5.4**	ug/L	0.50	0.13	1		01/01/21 03:17	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		01/01/21 03:17	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		01/01/21 03:17	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		01/01/21 03:17	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		01/01/21 03:17	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		01/01/21 03:17	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		01/01/21 03:17	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		01/01/21 03:17	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		01/01/21 03:17	2199-69-1	
4-Bromofluorobenzene (S)	96	%	70-130		1		01/01/21 03:17	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**162**	ug/L	100	53.9	1		12/31/20 03:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		12/31/20 03:08	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		12/31/20 03:08	624-95-3	
tert-Butyl Alcohol	**31.1J**	ug/L	100	27.3	1		12/31/20 03:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		12/31/20 03:08	762-75-4	P5
Diisopropyl ether	ND	ug/L	1.0	0.22	1		12/31/20 03:08	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		12/31/20 03:08	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		12/31/20 03:08	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/31/20 03:08	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		12/31/20 03:08	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		12/31/20 03:08	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

Sample: 07960 SCURRY PRE-GAC DUP **Lab ID: 92514324002** Collected: 12/28/20 12:12 Received: 12/30/20 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	01/06/21 10:28	01/06/21 13:36	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	70-130		1	01/06/21 10:28	01/06/21 13:36	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		01/01/21 03:43	71-43-2	
1,2-Dichloroethane	**5.6**	ug/L	0.50	0.13	1		01/01/21 03:43	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		01/01/21 03:43	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		01/01/21 03:43	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		01/01/21 03:43	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		01/01/21 03:43	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		01/01/21 03:43	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		01/01/21 03:43	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		01/01/21 03:43	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	92	%	70-130		1		01/01/21 03:43	2199-69-1	
4-Bromofluorobenzene (S)	91	%	70-130		1		01/01/21 03:43	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**161**	ug/L	100	53.9	1		12/31/20 02:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		12/31/20 02:50	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		12/31/20 02:50	624-95-3	
tert-Butyl Alcohol	**32.6J**	ug/L	100	27.3	1		12/31/20 02:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		12/31/20 02:50	762-75-4	
Diisopropyl ether	**0.24J**	ug/L	1.0	0.22	1		12/31/20 02:50	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		12/31/20 02:50	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		12/31/20 02:50	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/31/20 02:50	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		12/31/20 02:50	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		12/31/20 02:50	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

Sample: 07960 SCURRY POST GAC **Lab ID: 92514324003** Collected: 12/28/20 12:15 Received: 12/30/20 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	01/06/21 10:28	01/06/21 14:10	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	92	%	70-130		1	01/06/21 10:28	01/06/21 14:10	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		01/01/21 04:09	71-43-2	
1,2-Dichloroethane	**2.2**	ug/L	0.50	0.13	1		01/01/21 04:09	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		01/01/21 04:09	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		01/01/21 04:09	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		01/01/21 04:09	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		01/01/21 04:09	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		01/01/21 04:09	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		01/01/21 04:09	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		01/01/21 04:09	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		01/01/21 04:09	2199-69-1	
4-Bromofluorobenzene (S)	95	%	70-130		1		01/01/21 04:09	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**91.1J**	ug/L	100	53.9	1		12/31/20 01:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		12/31/20 01:55	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		12/31/20 01:55	624-95-3	
tert-Butyl Alcohol	**34.6J**	ug/L	100	27.3	1		12/31/20 01:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		12/31/20 01:55	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		12/31/20 01:55	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		12/31/20 01:55	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		12/31/20 01:55	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		12/31/20 01:55	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		12/31/20 01:55	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		12/31/20 01:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

Sample: 07960 GORDON PRE GAC **Lab ID: 92514324004** Collected: 12/28/20 11:00 Received: 12/30/20 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	01/06/21 10:28	01/06/21 14:22	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	70-130		1	01/06/21 10:28	01/06/21 14:22	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		01/01/21 04:35	71-43-2	
1,2-Dichloroethane	**2.8**	ug/L	0.50	0.13	1		01/01/21 04:35	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		01/01/21 04:35	100-41-4	
Methyl-tert-butyl ether	**0.26J**	ug/L	0.50	0.094	1		01/01/21 04:35	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		01/01/21 04:35	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		01/01/21 04:35	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		01/01/21 04:35	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		01/01/21 04:35	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		01/01/21 04:35	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		01/01/21 04:35	2199-69-1	
4-Bromofluorobenzene (S)	96	%	70-130		1		01/01/21 04:35	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		12/30/20 23:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		12/30/20 23:48	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		12/30/20 23:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		12/30/20 23:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		12/30/20 23:48	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		12/30/20 23:48	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		12/30/20 23:48	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		12/30/20 23:48	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		12/30/20 23:48	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		12/30/20 23:48	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		12/30/20 23:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

Sample: 07960 GORDON POST GAC **Lab ID: 92514324005** Collected: 12/28/20 11:05 Received: 12/30/20 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	01/06/21 10:28	01/06/21 14:34	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	93	%	70-130		1	01/06/21 10:28	01/06/21 14:34	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		01/01/21 05:01	71-43-2	
1,2-Dichloroethane	**0.31J**	ug/L	0.50	0.13	1		01/01/21 05:01	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		01/01/21 05:01	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		01/01/21 05:01	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		01/01/21 05:01	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		01/01/21 05:01	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		01/01/21 05:01	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		01/01/21 05:01	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		01/01/21 05:01	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		01/01/21 05:01	2199-69-1	
4-Bromofluorobenzene (S)	94	%	70-130		1		01/01/21 05:01	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		12/30/20 23:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		12/30/20 23:30	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		12/30/20 23:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		12/30/20 23:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		12/30/20 23:30	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		12/30/20 23:30	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		12/30/20 23:30	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		12/30/20 23:30	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/30/20 23:30	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		12/30/20 23:30	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		12/30/20 23:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

Sample: 07960 FIELD BLANK **Lab ID: 92514324006** Collected: 12/28/20 11:10 Received: 12/30/20 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	01/06/21 10:28	01/06/21 14:45	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	96	%	70-130		1	01/06/21 10:28	01/06/21 14:45	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		01/01/21 02:25	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		01/01/21 02:25	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		01/01/21 02:25	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		01/01/21 02:25	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		01/01/21 02:25	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		01/01/21 02:25	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		01/01/21 02:25	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		01/01/21 02:25	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		01/01/21 02:25	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		01/01/21 02:25	2199-69-1	
4-Bromofluorobenzene (S)	95	%	70-130		1		01/01/21 02:25	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		12/30/20 21:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		12/30/20 21:59	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		12/30/20 21:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		12/30/20 21:59	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		12/30/20 21:59	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		12/30/20 21:59	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		12/30/20 21:59	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		12/30/20 21:59	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/30/20 21:59	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		12/30/20 21:59	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		12/30/20 21:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

Sample: 07960 TRIP BLANK **Lab ID: 92514324007** Collected: 12/28/20 00:00 Received: 12/30/20 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		01/04/21 15:45	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		01/04/21 15:45	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		01/04/21 15:45	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		01/04/21 15:45	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		01/04/21 15:45	91-20-3	
Toluene	**0.36J**	ug/L	0.50	0.24	1		01/04/21 15:45	108-88-3	C0
Xylene (Total)	ND	ug/L	0.50	0.25	1		01/04/21 15:45	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		01/04/21 15:45	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		01/04/21 15:45	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		01/04/21 15:45	2199-69-1	
4-Bromofluorobenzene (S)	97	%	70-130		1		01/04/21 15:45	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		12/30/20 21:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		12/30/20 21:23	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		12/30/20 21:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		12/30/20 21:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		12/30/20 21:23	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		12/30/20 21:23	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		12/30/20 21:23	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		12/30/20 21:23	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/30/20 21:23	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		12/30/20 21:23	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		12/30/20 21:23	2037-26-5	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

QC Batch: 590289 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92514324001, 92514324002, 92514324003, 92514324004, 92514324005, 92514324006

METHOD BLANK: 3117103 Matrix: Water
Associated Lab Samples: 92514324001, 92514324002, 92514324003, 92514324004, 92514324005, 92514324006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.13	01/01/21 01:59	
Benzene	ug/L	ND	0.50	0.25	01/01/21 01:59	
Ethylbenzene	ug/L	ND	0.50	0.26	01/01/21 01:59	
m&p-Xylene	ug/L	ND	1.0	0.46	01/01/21 01:59	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.094	01/01/21 01:59	
Naphthalene	ug/L	ND	0.50	0.31	01/01/21 01:59	
o-Xylene	ug/L	ND	0.50	0.25	01/01/21 01:59	
Toluene	ug/L	ND	0.50	0.24	01/01/21 01:59	
Xylene (Total)	ug/L	ND	0.50	0.25	01/01/21 01:59	
1,2-Dichlorobenzene-d4 (S)	%	96	70-130		01/01/21 01:59	
4-Bromofluorobenzene (S)	%	94	70-130		01/01/21 01:59	

LABORATORY CONTROL SAMPLE: 3117104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	17.9	90	70-130	
Benzene	ug/L	20	18.5	92	70-130	
Ethylbenzene	ug/L	20	20.0	100	70-130	
m&p-Xylene	ug/L	40	40.2	100	70-130	
Methyl-tert-butyl ether	ug/L	20	17.1	86	70-130	
Naphthalene	ug/L	20	16.4	82	70-130	
o-Xylene	ug/L	20	20.5	102	70-130	
Toluene	ug/L	20	19.5	97	70-130	
Xylene (Total)	ug/L	60	60.7	101		
1,2-Dichlorobenzene-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

QC Batch: 590510
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92514324007

METHOD BLANK: 3117838
Matrix: Water
Associated Lab Samples: 92514324007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.13	01/04/21 15:19	
Benzene	ug/L	ND	0.50	0.25	01/04/21 15:19	
Ethylbenzene	ug/L	ND	0.50	0.26	01/04/21 15:19	
m&p-Xylene	ug/L	ND	1.0	0.46	01/04/21 15:19	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.094	01/04/21 15:19	
Naphthalene	ug/L	ND	0.50	0.31	01/04/21 15:19	
o-Xylene	ug/L	ND	0.50	0.25	01/04/21 15:19	
Toluene	ug/L	ND	0.50	0.24	01/04/21 15:19	
Xylene (Total)	ug/L	ND	0.50	0.25	01/04/21 15:19	
1,2-Dichlorobenzene-d4 (S)	%	93	70-130		01/04/21 15:19	
4-Bromofluorobenzene (S)	%	94	70-130		01/04/21 15:19	

LABORATORY CONTROL SAMPLE: 3117839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.6	103	70-130	
Benzene	ug/L	20	21.4	107	70-130	
Ethylbenzene	ug/L	20	23.3	116	70-130	
m&p-Xylene	ug/L	40	47.0	118	70-130	
Methyl-tert-butyl ether	ug/L	20	19.4	97	70-130	
Naphthalene	ug/L	20	18.2	91	70-130	
o-Xylene	ug/L	20	23.6	118	70-130	
Toluene	ug/L	20	23.1	116	70-130	
Xylene (Total)	ug/L	60	70.6	118		
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

QC Batch: 590137 — Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D — Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92514324001, 92514324002, 92514324003, 92514324004, 92514324005, 92514324006, 92514324007

METHOD BLANK: 3116406 Matrix: Water
Associated Lab Samples: 92514324001, 92514324002, 92514324003, 92514324004, 92514324005, 92514324006, 92514324007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	12/30/20 20:46	
Diisopropyl ether	ug/L	ND	1.0	0.22	12/30/20 20:46	
Ethanol	ug/L	ND	200	98.8	12/30/20 20:46	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	12/30/20 20:46	
tert-Amyl Alcohol	ug/L	ND	100	53.9	12/30/20 20:46	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	12/30/20 20:46	
tert-Butyl Alcohol	ug/L	ND	100	27.3	12/30/20 20:46	
tert-Butyl Formate	ug/L	ND	50.0	24.7	12/30/20 20:46	
1,2-Dichloroethane-d4 (S)	%	96	70-130		12/30/20 20:46	
4-Bromofluorobenzene (S)	%	97	70-130		12/30/20 20:46	
Toluene-d8 (S)	%	98	70-130		12/30/20 20:46	

LABORATORY CONTROL SAMPLE: 3116407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1060	106	70-130	
Diisopropyl ether	ug/L	50	44.8	90	70-130	
Ethanol	ug/L	2000	1910	95	70-130	
Ethyl-tert-butyl ether	ug/L	100	94.5	95	70-130	
tert-Amyl Alcohol	ug/L	1000	1030	103	70-130	
tert-Amylmethyl ether	ug/L	100	98.7	99	70-130	
tert-Butyl Alcohol	ug/L	500	535	107	70-130	
tert-Butyl Formate	ug/L	400	391	98	70-130	
1,2-Dichloroethane-d4 (S)	%			89	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3116408 3116409

Parameter	Units	92514324001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	384	401	96	100	39-157	4	30	
Diisopropyl ether	ug/L	ND	20	20	18.1	18.8	90	93	63-144	3	30	
Ethanol	ug/L	ND	800	800	800	742	100	93	39-176	8	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	37.5	39.0	94	97	66-137	4	30	
tert-Amyl Alcohol	ug/L	162	400	400	580	608	105	112	54-153	5	30	
tert-Amylmethyl ether	ug/L	ND	40	40	37.9	39.1	95	98	69-139	3	30	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3116408 3116409

Parameter	Units	92514324001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
tert-Butyl Alcohol	ug/L	31.1J	200	200	320	326	144	147	43-188	2	30	
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	10-170		30	P5
1,2-Dichloroethane-d4 (S)	%						95	97	70-130			
4-Bromofluorobenzene (S)	%						97	97	70-130			
Toluene-d8 (S)	%						98	98	70-130			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

QC Batch: 590913 | Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 | Analysis Description: GCS 504 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92514324001, 92514324002, 92514324003, 92514324004, 92514324005, 92514324006

METHOD BLANK: 3119584 Matrix: Water
Associated Lab Samples: 92514324001, 92514324002, 92514324003, 92514324004, 92514324005, 92514324006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	01/06/21 12:37	
1-Chloro-2-bromopropane (S)	%	92	70-130		01/06/21 12:37	

LABORATORY CONTROL SAMPLE & LCSD: 3119585 3119586

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.27	0.27	108	107	70-130	1	20	
1-Chloro-2-bromopropane (S)	%				104	103	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3119588 3119589

Parameter	Units	92514324002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.26	0.28	104	109	65-135	5	20	
1-Chloro-2-bromopropane (S)	%						101	105	70-130			

SAMPLE DUPLICATE: 3119587

Parameter	Units	92514324001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	98	104			

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QUALIFIERS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

C0	Result confirmed by second analysis.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92514324

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92514324001	07960 SCURRY PRE-GAC	EPA 504.1	590913	EPA 504.1	590972
92514324002	07960 SCURRY PRE-GAC DUP	EPA 504.1	590913	EPA 504.1	590972
92514324003	07960 SCURRY POST GAC	EPA 504.1	590913	EPA 504.1	590972
92514324004	07960 GORDON PRE GAC	EPA 504.1	590913	EPA 504.1	590972
92514324005	07960 GORDON POST GAC	EPA 504.1	590913	EPA 504.1	590972
92514324006	07960 FIELD BLANK	EPA 504.1	590913	EPA 504.1	590972
92514324001	07960 SCURRY PRE-GAC	EPA 524.2	590289		
92514324002	07960 SCURRY PRE-GAC DUP	EPA 524.2	590289		
92514324003	07960 SCURRY POST GAC	EPA 524.2	590289		
92514324004	07960 GORDON PRE GAC	EPA 524.2	590289		
92514324005	07960 GORDON POST GAC	EPA 524.2	590289		
92514324006	07960 FIELD BLANK	EPA 524.2	590289		
92514324007	07960 TRIP BLANK	EPA 524.2	590510		
92514324001	07960 SCURRY PRE-GAC	EPA 8260D	590137		
92514324002	07960 SCURRY PRE-GAC DUP	EPA 8260D	590137		
92514324003	07960 SCURRY POST GAC	EPA 8260D	590137		
92514324004	07960 GORDON PRE GAC	EPA 8260D	590137		
92514324005	07960 GORDON POST GAC	EPA 8260D	590137		
92514324006	07960 FIELD BLANK	EPA 8260D	590137		
92514324007	07960 TRIP BLANK	EPA 8260D	590137		

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Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: SCDHEC

Project #: WO# : 92514324

92514324

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other: ____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: MS 12-30-20

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 92T064

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 1.8 **Correction Factor:** Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.7

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☐ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	10.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

COC says 11-28 for collected date, Containers say 12-28

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: ____ Date/Time: ____

Project Manager SCURF Review: ____ **Date:** ____

Project Manager SRF Review: ____ **Date:** ____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

Project #

WO#: 92514324

PM: AMB Due Date: 01/07/21

CLIENT: 92-SCDHEC

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6	3											
2																6	3											
3																6	3											
4																6	3											
5																6	3											
6																6	3											
7																4												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Sawyer

GAC Unit Installation and Maintenance

Date: 3/4/21

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 730 Hwy 378 East, Edgefield, SC (Scurry Residence)

GAC Unit Serial Number: Tank #
Controller #

RECEIVED
MAR 18 2021
UST DIVISION

NEW INSTALLATION

UST DOCKETING
177
Geel

Date Installation Completed: ____________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* __X__ Good

Condition of GAC Housing ______ In Need of Repair* __X__ Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
■ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre, Pre Dupe and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #62802). Total gallons filtered : 151,599

GAC Unit Installation and Maintenance

Date: 3/4/21

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 724 Hwy 378 East, Edgefield, SC (Gordon Residence)

GAC Unit Serial Number: Tank #
Controller #

NEW INSTALLATION

Date Installation Completed: ____________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ____ In Need of Repair* __X__ Good

Condition of GAC Housing ____ In Need of Repair* __X__ Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
☐ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre, Pre Dupe and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #62802).

GAC Maintenance Report

Permit # 07960

Emerald Job # 304-B

Address	Serial #	Model #	Date Serviced	Condition of Unit	Samples Collected
730 Hwy 378 East, Edgefield, SC Scurry Residence			3/4/21	Needs Repairs ■ Good ☐	Pre-GAC ■ Dup-GAC ■ Mid-GAC ☐ Post-GAC ■
724 Hwy 378 East, Edgefield, SC Gordon Residence			3/4/21	Needs Repairs ☐ Good ■	Pre-GAC ■ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ■
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC

Notes:

Filter Disposal Method: Landfill

Service/Repairs:

Comments: Performed Carbon Filter change at Scurry & Gordon residences. Pre, and Post GAC samples were collected at the Gordon Residence with Pre, Pre Dup and Post GAC samples collected at the Scurry residence.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: SCDHEC	Report To: Robert Dunn	Attention:
Address: 2600 BULL STREET	Copy To:	Company Name:
COLUMBIA, SC 29201		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: 803-898-0589 Fax:	Project Name: 378 Truck Stop	Pace Project Manager: T. Ezell
Requested Due Date/TAT:	Project Number: SCDHEC SITE ID# 07960,PACE CA#	Pace Profile #:

Page: 1 of 1

REGULATORY AGENCY

- [ ] NPDES
- [ ] GROUND WATER
- [ ] DRINKING WATER
- [x] UST
- [ ] RCRA
- [ ] OTHER ______

Site Location STATE: SC

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	07960 SCURRY PRE-GAC	WT	G			3-4-21	1335		9				6		3				X	X	X		
2	07960 SCURRY PRE GAC DUP	WT	G				1338		9				6		3				X	X	X		
3	07960 SCURRY POST GAC	WT	G				1345		9				6		3				X	X	X		
4	07960 GORDON PRE-GAC	WT	G				1415		9				6		3				X	X	X		
5	07960 GORDON POST GAC	WT	G				1420		9				6		3				X	X	X		
6	07960 FIELD BLANK	WT	G				1425		9				6		3				X	X	X		
7	07960 TRIP BLANK	WT	G			3-4-21	—		4				4						X	X			
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Cody Papp / Emerald Inc.	3-4-21	1800	[illegible signature]	3/5	1120	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cody Papp

SIGNATURE of SAMPLER: Cody Papp

DATE Signed (MM/DD/YY): 3/4/20

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

GAC Unit Installation and Maintenance

Date: 12/28/20

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 730 Hwy 378 East, Edgefield, SC (Scurry Residence)

GAC Unit Serial Number: Tank #
Controller #

Sawyer

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UST DIVISION

NEW INSTALLATION

Date Installation Completed: ______________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* __X__ Good

Condition of GAC Housing ______ In Need of Repair* __X__ Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
■ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre, Pre Dupe and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #62802). Total gallons filtered : 147,469

GAC Unit Installation and Maintenance

Date: 12/28/20

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 724 Hwy 378 East, Edgefield, SC (Gordon Residence)

GAC Unit Serial Number: Tank #
Controller #

NEW INSTALLATION

Date Installation Completed: ____________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* __X__ Good

Condition of GAC Housing ______ In Need of Repair* __X__ Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
☐ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre, Pre Dupe and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #62802).

GAC Maintenance Report

Permit # 07960

Emerald Job # 304-A

Address	Serial #	Model #	Date Serviced	Condition of Unit	Samples Collected
730 Hwy 378 East, Edgefield, SC Scurry Residence			12/28/20	Needs Repairs ■ Good ☐	Pre-GAC ■ Dup-GAC ■ Mid-GAC ☐ Post-GAC ■
724 Hwy 378 East, Edgefield, SC Gordon Residence			12/28/20	Needs Repairs ☐ Good ■	Pre-GAC ■ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ■
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC

Notes:

Filter Disposal Method: Landfill

Service/Repairs:

Comments: Performed Carbon Filter change at Scurry & Gordon residences. Pre, and Post GAC samples were collected at the Gordon Residence with Pre, Pre Dup and Post GAC samples collected at the Scurry residence.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page: 1 of 1
Company: SCDHEC	Report To: Robert Dunn	Attention:	
Address: 2600 BULL STREET	Copy To:	Company Name:	REGULATORY AGENCY
COLUMBIA, SC 29201		Address:	☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
Email To:	Purchase Order No.:	Pace Quote Reference:	☑ UST ☐ RCRA ☐ OTHER
Phone: 803-898-0589 Fax:	Project Name: 378 Truck Stop	Pace Project Manager: T. Ezell	Site Location STATE: SC
Requested Due Date/TAT:	Project Number: SCDHEC SITE ID# 07960,PACE CA#	Pace Profile #:	

Section D Required Client Information

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	TIME	COMPOSITE END/GRAB DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	07960 SCURRY PRE-GAC	WT	G			11-28-20	1210		9				6		3				x	x	x		
2	07960 SCURRY PRE GAC DUP	WT	G				1212		9				6		3				x	x	x		
3	07960 SCURRY POST GAC	WT	G				1215		9				6		3				x	x	x		
4	07960 GORDON PRE-GAC	WT	G				1100		9				6		3				x	x	x		
5	07960 GORDON POST GAC	WT	G				1105		9				6		3				x	x	x		
6	07960 FIELD BLANK	WT	G				1110		9				6		3				x	x	x		
7	07960 TRIP BLANK	WT	G				—		4				4						x	x			
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Cody Gay / Emerald Inc	12-28-20	1700	Josh Mallas	12/30/20	1215				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cody Pap

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 11-28-20

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days

F-ALL-Q-020rev.07, 15-Feb-2007

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Huntersville, NC 28078
(704)875-9092

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MAR 17 2021
UST DIVISION

GAL
B. Baldwin

March 10, 2021

Robert Dunn
SCDHEC
2600 Bull St
Columbia, SC 29201

RE: Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on March 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Coleman, Midlands Environmental Consultants, Inc.
Kyle Pudney, Midlands Environmental Consultants, Inc.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project:	378 Truck Stop 07960/62802
Pace Project No.:	92526101

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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Huntersville, NC 28078
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SAMPLE SUMMARY

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92526101001	**07960 SCURRY PRE-GAC**	Water	03/04/21 13:35	03/05/21 11:20
92526101002	**07960 SCURRY PRE GAC DUP**	Water	03/04/21 13:38	03/05/21 11:20
92526101003	**07960 SCURRY POST GAC**	Water	03/04/21 13:45	03/05/21 11:20
92526101004	**07960 GORDON PRE-GAC**	Water	03/04/21 14:15	03/05/21 11:20
92526101005	**07960 GORDON POST GAC**	Water	03/04/21 14:20	03/05/21 11:20
92526101006	**07960 FIELD BLANK**	Water	03/04/21 14:25	03/05/21 11:20
92526101007	**07960 TRIP BLANK**	Water	03/04/21 00:00	03/05/21 11:20

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SAMPLE ANALYTE COUNT

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92526101001	**07960 SCURRY PRE-GAC**	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	BSH	11	PASI-C
92526101002	**07960 SCURRY PRE GAC DUP**	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	BSH	11	PASI-C
92526101003	**07960 SCURRY POST GAC**	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	BSH	11	PASI-C
92526101004	**07960 GORDON PRE-GAC**	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	BSH	11	PASI-C
92526101005	**07960 GORDON POST GAC**	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	BSH	11	PASI-C
92526101006	**07960 FIELD BLANK**	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	BSH	11	PASI-C
92526101007	**07960 TRIP BLANK**	EPA 524.2	LMB	11	PASI-C
		EPA 8260D	BSH	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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SUMMARY OF DETECTION

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92526101001	**07960 SCURRY PRE-GAC**					
EPA 524.2	1,2-Dichloroethane	3.2	ug/L	0.50	03/08/21 17:26	
EPA 8260D	tert-Amyl Alcohol	60.6J	ug/L	100	03/08/21 19:46	
92526101002	**07960 SCURRY PRE GAC DUP**					
EPA 524.2	1,2-Dichloroethane	2.8	ug/L	0.50	03/08/21 17:52	
EPA 8260D	tert-Amyl Alcohol	62.7J	ug/L	100	03/08/21 20:05	

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PROJECT NARRATIVE

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

Method: **EPA 504.1**
Description: 504 GCS EDB and DBCP
Client: SCDHEC
Date: March 10, 2021

General Information:
6 samples were analyzed for EPA 504.1 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 504.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

Method: **EPA 524.2**
Description: 524.2 MSV SC List
Client: SCDHEC
Date: March 10, 2021

General Information:
7 samples were analyzed for EPA 524.2 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

Method: **EPA 8260D**
Description: 8260 MSV Low Level SC
Client: SCDHEC
Date: March 10, 2021

General Information:
7 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

Sample: 07960 SCURRY PRE-GAC **Lab ID: 92526101001** Collected: 03/04/21 13:35 Received: 03/05/21 11:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.013	1	03/09/21 13:45	03/09/21 18:08	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	87	%	70-130		1	03/09/21 13:45	03/09/21 18:08	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		03/08/21 17:26	71-43-2	
1,2-Dichloroethane	**3.2**	ug/L	0.50	0.13	1		03/08/21 17:26	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		03/08/21 17:26	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		03/08/21 17:26	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		03/08/21 17:26	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		03/08/21 17:26	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/08/21 17:26	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		03/08/21 17:26	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		03/08/21 17:26	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		03/08/21 17:26	2199-69-1	
4-Bromofluorobenzene (S)	104	%	70-130		1		03/08/21 17:26	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**60.6J**	ug/L	100	53.9	1		03/08/21 19:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/08/21 19:46	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/08/21 19:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/08/21 19:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/08/21 19:46	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/08/21 19:46	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/08/21 19:46	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/08/21 19:46	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/08/21 19:46	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/08/21 19:46	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/08/21 19:46	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

Sample: 07960 SCURRY PRE GAC DUP **Lab ID: 92526101002** Collected: 03/04/21 13:38 Received: 03/05/21 11:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.013	1	03/09/21 13:45	03/09/21 18:20	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	85	%	70-130		1	03/09/21 13:45	03/09/21 18:20	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		03/08/21 17:52	71-43-2	
1,2-Dichloroethane	**2.8**	ug/L	0.50	0.13	1		03/08/21 17:52	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		03/08/21 17:52	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		03/08/21 17:52	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		03/08/21 17:52	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		03/08/21 17:52	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/08/21 17:52	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		03/08/21 17:52	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		03/08/21 17:52	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		03/08/21 17:52	2199-69-1	
4-Bromofluorobenzene (S)	104	%	70-130		1		03/08/21 17:52	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	62.7J	ug/L	100	53.9	1		03/08/21 20:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/08/21 20:05	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/08/21 20:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/08/21 20:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/08/21 20:05	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/08/21 20:05	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/08/21 20:05	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/08/21 20:05	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/08/21 20:05	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/08/21 20:05	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/08/21 20:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

Sample: 07960 SCURRY POST GAC **Lab ID: 92526101003** Collected: 03/04/21 13:45 Received: 03/05/21 11:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.013	1	03/09/21 13:45	03/09/21 18:31	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	87	%	70-130		1	03/09/21 13:45	03/09/21 18:31	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		03/08/21 16:34	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		03/08/21 16:34	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		03/08/21 16:34	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		03/08/21 16:34	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		03/08/21 16:34	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		03/08/21 16:34	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/08/21 16:34	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		03/08/21 16:34	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		03/08/21 16:34	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		03/08/21 16:34	2199-69-1	
4-Bromofluorobenzene (S)	104	%	70-130		1		03/08/21 16:34	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/08/21 20:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/08/21 20:23	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/08/21 20:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/08/21 20:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/08/21 20:23	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/08/21 20:23	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/08/21 20:23	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/08/21 20:23	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/08/21 20:23	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/08/21 20:23	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/08/21 20:23	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

Sample: 07960 GORDON PRE-GAC **Lab ID: 92526101004** Collected: 03/04/21 14:15 Received: 03/05/21 11:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.013	1	03/09/21 13:45	03/09/21 18:43	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	86	%	70-130		1	03/09/21 13:45	03/09/21 18:43	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		03/08/21 17:00	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		03/08/21 17:00	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		03/08/21 17:00	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		03/08/21 17:00	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		03/08/21 17:00	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		03/08/21 17:00	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/08/21 17:00	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		03/08/21 17:00	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		03/08/21 17:00	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		03/08/21 17:00	2199-69-1	
4-Bromofluorobenzene (S)	104	%	70-130		1		03/08/21 17:00	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/08/21 20:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/08/21 20:41	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/08/21 20:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/08/21 20:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/08/21 20:41	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/08/21 20:41	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/08/21 20:41	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/08/21 20:41	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/08/21 20:41	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/08/21 20:41	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/08/21 20:41	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

Sample: 07960 GORDON POST GAC **Lab ID: 92526101005** Collected: 03/04/21 14:20 Received: 03/05/21 11:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.013	1	03/09/21 13:45	03/09/21 18:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	87	%	70-130		1	03/09/21 13:45	03/09/21 18:54	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		03/08/21 16:08	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		03/08/21 16:08	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		03/08/21 16:08	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		03/08/21 16:08	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		03/08/21 16:08	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		03/08/21 16:08	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/08/21 16:08	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		03/08/21 16:08	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		03/08/21 16:08	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		03/08/21 16:08	2199-69-1	
4-Bromofluorobenzene (S)	102	%	70-130		1		03/08/21 16:08	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/08/21 20:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/08/21 20:59	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/08/21 20:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/08/21 20:59	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/08/21 20:59	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/08/21 20:59	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/08/21 20:59	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/08/21 20:59	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/08/21 20:59	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/08/21 20:59	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/08/21 20:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

Sample: 07960 FIELD BLANK **Lab ID: 92526101006** Collected: 03/04/21 14:25 Received: 03/05/21 11:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.013	1	03/09/21 13:45	03/09/21 19:06	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	87	%	70-130		1	03/09/21 13:45	03/09/21 19:06	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		03/08/21 13:31	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		03/08/21 13:31	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		03/08/21 13:31	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		03/08/21 13:31	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		03/08/21 13:31	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		03/08/21 13:31	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/08/21 13:31	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		03/08/21 13:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		03/08/21 13:31	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	103	%	70-130		1		03/08/21 13:31	2199-69-1	
4-Bromofluorobenzene (S)	104	%	70-130		1		03/08/21 13:31	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/08/21 18:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/08/21 18:16	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/08/21 18:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/08/21 18:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/08/21 18:16	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/08/21 18:16	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/08/21 18:16	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/08/21 18:16	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/08/21 18:16	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/08/21 18:16	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		03/08/21 18:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

Sample: 07960 TRIP BLANK **Lab ID: 92526101007** Collected: 03/04/21 00:00 Received: 03/05/21 11:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.25	1		03/08/21 13:57	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.13	1		03/08/21 13:57	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.26	1		03/08/21 13:57	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.094	1		03/08/21 13:57	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.31	1		03/08/21 13:57	91-20-3	
Toluene	ND	ug/L	0.50	0.24	1		03/08/21 13:57	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/08/21 13:57	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.46	1		03/08/21 13:57	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.25	1		03/08/21 13:57	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		03/08/21 13:57	2199-69-1	
4-Bromofluorobenzene (S)	103	%	70-130		1		03/08/21 13:57	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/08/21 18:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/08/21 18:34	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/08/21 18:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/08/21 18:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/08/21 18:34	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/08/21 18:34	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/08/21 18:34	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/08/21 18:34	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/08/21 18:34	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/08/21 18:34	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/08/21 18:34	2037-26-5	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

QC Batch: 604892
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92526101001, 92526101002, 92526101003, 92526101004, 92526101005, 92526101006, 92526101007

METHOD BLANK: 3186890
Matrix: Water
Associated Lab Samples: 92526101001, 92526101002, 92526101003, 92526101004, 92526101005, 92526101006, 92526101007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.13	03/08/21 11:47	
Benzene	ug/L	ND	0.50	0.25	03/08/21 11:47	
Ethylbenzene	ug/L	ND	0.50	0.26	03/08/21 11:47	
m&p-Xylene	ug/L	ND	1.0	0.46	03/08/21 11:47	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.094	03/08/21 11:47	
Naphthalene	ug/L	ND	0.50	0.31	03/08/21 11:47	
o-Xylene	ug/L	ND	0.50	0.25	03/08/21 11:47	
Toluene	ug/L	ND	0.50	0.24	03/08/21 11:47	
Xylene (Total)	ug/L	ND	0.50	0.25	03/08/21 11:47	
1,2-Dichlorobenzene-d4 (S)	%	104	70-130		03/08/21 11:47	
4-Bromofluorobenzene (S)	%	103	70-130		03/08/21 11:47	

LABORATORY CONTROL SAMPLE: 3186891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	18.6	93	70-130	
Benzene	ug/L	20	18.1	91	70-130	
Ethylbenzene	ug/L	20	19.1	96	70-130	
m&p-Xylene	ug/L	40	37.4	94	70-130	
Methyl-tert-butyl ether	ug/L	20	18.5	93	70-130	
Naphthalene	ug/L	20	18.1	91	70-130	
o-Xylene	ug/L	20	18.9	94	70-130	
Toluene	ug/L	20	18.6	93	70-130	
Xylene (Total)	ug/L	60	56.3	94		
1,2-Dichlorobenzene-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

QC Batch: 604953
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92526101001, 92526101002, 92526101003, 92526101004, 92526101005, 92526101006, 92526101007

METHOD BLANK: 3187334   Matrix: Water
Associated Lab Samples: 92526101001, 92526101002, 92526101003, 92526101004, 92526101005, 92526101006, 92526101007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	03/08/21 16:27	
Diisopropyl ether	ug/L	ND	1.0	0.22	03/08/21 16:27	
Ethanol	ug/L	ND	200	98.8	03/08/21 16:27	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	03/08/21 16:27	
tert-Amyl Alcohol	ug/L	ND	100	53.9	03/08/21 16:27	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	03/08/21 16:27	
tert-Butyl Alcohol	ug/L	ND	100	27.3	03/08/21 16:27	
tert-Butyl Formate	ug/L	ND	50.0	24.7	03/08/21 16:27	
1,2-Dichloroethane-d4 (S)	%	101	70-130		03/08/21 16:27	
4-Bromofluorobenzene (S)	%	100	70-130		03/08/21 16:27	
Toluene-d8 (S)	%	101	70-130		03/08/21 16:27	

LABORATORY CONTROL SAMPLE: 3187335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1120	112	70-130	
Diisopropyl ether	ug/L	50	52.2	104	70-130	
Ethanol	ug/L	2000	2310	115	70-130	
Ethyl-tert-butyl ether	ug/L	100	110	110	70-130	
tert-Amyl Alcohol	ug/L	1000	1080	108	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	526	105	70-130	
tert-Butyl Formate	ug/L	400	450	112	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3187336   3187337

Parameter	Units	92526038002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
3,3-Dimethyl-1-Butanol	ug/L	<62.0	400	400	385	385	96	96	39-157	0	30	
Diisopropyl ether	ug/L	<0.22	20	20	18.9	20.7	94	104	63-144	10	30	
Ethanol	ug/L	<98.8	800	800	803	971	100	121	39-176	19	30	
Ethyl-tert-butyl ether	ug/L	<3.7	40	40	39.2	43.4	98	109	66-137	10	30	
tert-Amyl Alcohol	ug/L	<53.9	400	400	460	458	103	103	54-153	0	30	
tert-Amylmethyl ether	ug/L	<3.5	40	40	39.5	44.3	99	111	69-139	11	30	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3187336 3187337

Parameter	Units	92526038002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
tert-Butyl Alcohol	ug/L	306	200	200	576	586	135	140	43-188	2	30	
tert-Butyl Formate	ug/L	<24.7	160	160	42.4J	41.1J	26	26	10-170		30	
1,2-Dichloroethane-d4 (S)	%						98	101	70-130			
4-Bromofluorobenzene (S)	%						100	99	70-130			
Toluene-d8 (S)	%						104	105	70-130			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

QC Batch: 605189
QC Batch Method: EPA 504.1
Analysis Method: EPA 504.1
Analysis Description: GCS 504 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92526101001, 92526101002, 92526101003, 92526101004, 92526101005, 92526101006

METHOD BLANK: 3188278 Matrix: Water

Associated Lab Samples: 92526101001, 92526101002, 92526101003, 92526101004, 92526101005, 92526101006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.013	03/09/21 14:50	
1-Chloro-2-bromopropane (S)	%	94	70-130		03/09/21 14:50	

LABORATORY CONTROL SAMPLE & LCSD: 3188279 3188280

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.26	0.27	103	108	70-130	5	20	
1-Chloro-2-bromopropane (S)	%				97	102	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3188282 3188283

Parameter	Units	92525539027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.25	0.25	100	98	65-135	2	20	
1-Chloro-2-bromopropane (S)	%						95	93	70-130			

SAMPLE DUPLICATE: 3188281

Parameter	Units	92525539026 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	92	93			

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QUALIFIERS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92526101

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92526101001	**07960 SCURRY PRE-GAC**	EPA 504.1	605189	EPA 504.1	605273
92526101002	**07960 SCURRY PRE GAC DUP**	EPA 504.1	605189	EPA 504.1	605273
92526101003	**07960 SCURRY POST GAC**	EPA 504.1	605189	EPA 504.1	605273
92526101004	**07960 GORDON PRE-GAC**	EPA 504.1	605189	EPA 504.1	605273
92526101005	**07960 GORDON POST GAC**	EPA 504.1	605189	EPA 504.1	605273
92526101006	**07960 FIELD BLANK**	EPA 504.1	605189	EPA 504.1	605273
92526101001	**07960 SCURRY PRE-GAC**	EPA 524.2	604892		
92526101002	**07960 SCURRY PRE GAC DUP**	EPA 524.2	604892		
92526101003	**07960 SCURRY POST GAC**	EPA 524.2	604892		
92526101004	**07960 GORDON PRE-GAC**	EPA 524.2	604892		
92526101005	**07960 GORDON POST GAC**	EPA 524.2	604892		
92526101006	**07960 FIELD BLANK**	EPA 524.2	604892		
92526101007	**07960 TRIP BLANK**	EPA 524.2	604892		
92526101001	**07960 SCURRY PRE-GAC**	EPA 8260D	604953		
92526101002	**07960 SCURRY PRE GAC DUP**	EPA 8260D	604953		
92526101003	**07960 SCURRY POST GAC**	EPA 8260D	604953		
92526101004	**07960 GORDON PRE-GAC**	EPA 8260D	604953		
92526101005	**07960 GORDON POST GAC**	EPA 8260D	604953		
92526101006	**07960 FIELD BLANK**	EPA 8260D	604953		
92526101007	**07960 TRIP BLANK**	EPA 8260D	604953		

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Pace Analytical®	Sample Condition Upon Receipt(SCUR)	Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: SCDHEC

Project #: WO# : 92526101

92526101

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☑ No

Date/Initials Person Examining Contents: 3-8-21 AMW

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 92T064

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.4 Correction Factor: Add/Subtract (°C) 0.0°C

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.4

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	10.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

Project # **WO#: 92526101**

PM: AMB Due Date: 03/12/21

CLIENT: 92-SCDHEC

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6	3											
2																6	3											
3																6	3											
4																6	3											
5																6	3											
6																6	3											
7																4												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A — Required Client Information:

Company:	SCDHEC
Address:	2600 BULL STREET
	COLUMBIA, SC 29201
Email To:	
Phone:	803-898-0589
Fax:	
Requested Due Date/TAT:	-

Section B — Required Project Information:

Report To:	Robert Dunn
Copy To:	
Purchase Order No.:	
Project Name:	378 Truck Stop
Project Number:	SCDHEC SITE ID# 07960,PACE CA#

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	T. Ezell
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D — Required Client Information

Valid Matrix Codes (MATRIX / CODE): DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92526101
1	07960 SCURRY PRE-GAC	WT	G			3-4-21	1335		[illegible]				6		3				X	X	X		001
2	07960 SCURRY PRE GAC DUP	WT	G			↓	1338		[illegible]				6		3				X	X	X		002
3	07960 SCURRY POST GAC	WT	G				1345		[illegible]				6		3				X	X	X		003
4	07960 GORDON PRE-GAC	WT	G				1415		[illegible]				6		3				X	X	X		004
5	07960 GORDON POST GAC	WT	G				1420		[illegible]				6		3				X	X	X		005
6	07960 FIELD BLANK	WT	G			↓	1425		[illegible]				6		3				X	X	X		006
7	07960 TRIP BLANK	WT	G			3-4-21	—		[illegible]				4						X	X			007
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Cody Papp / Emerald Inc.	3-4-21	1800		3/5	1120				
		3/5	1730	AMP PACE AVL	3-5-21	1730	1.4	Y	N	Y

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cody Papp

SIGNATURE of SAMPLER: Cody Papp

DATE Signed (MM/DD/YY): 3/4/20

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Sawyer

GAC Unit Installation and Maintenance

Date: 8/25/20

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 730 Hwy 378 East, Edgefield, SC (Scurry Residence)

GAC Unit Serial Number: Tank #
Controller #

RECEIVED
MAR 18 2021
UST DIVISION

UST DOCKETING 178

NEW INSTALLATION

Date Installation Completed: ____________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

☐ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* X Good

Condition of GAC Housing ______ In Need of Repair* X Good

*Repairs Needed:

■ SERVICE/REPAIR CALL

Service or Repair Provided: On the last filter change an electrical issue was discovered with the GAC unit. It was determined that it was improperly wired and the unit had lost all power. Braxton Electrical Services with the help of Emerald personel properly rewired all elecrical componets to the GAC unit. 4 hour service call.

☐ SAMPLE COLLECTION
- ☐ Pre-GAC
- ☐ Pre-GAC DUP
- ☐ Mid-GAC
- ☐ Post-GAC

Comments: Had to rent a trenching machine and trench roughly 85 feet.
This unit was not installed by Emerald Inc.

GAC Maintenance Report

Permit # 07960

Emerald Job # 307

Address	Serial #	Model #	Date Serviced	Condition of Unit	Samples Collected
730 Hwy 378 East, Edgefield, SC Scurry Residence			8/25/20	Needs Repairs ☐ Good ■	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC

Notes:

Filter Disposal Method: ______________________

Service/Repairs: On the last filter change an electrical issue was discovered with the GAC unit. It was determined that it was improperly wired and the unit had lost all power. Braxton Electrical Services with the help of Emerald personel properly rewired all elecrical componets to the GAC unit. 4 hour service call.

Comments: Had to rent a trenching machine and trench roughly 85 feet.
This unit was not installed by Emerald Inc.

dhec
Healthy People. Healthy Communities.

FRANK WILKERSON
WILKERSON FUEL CO INC
PO BOX 2835
ROCK HILL SC 29732

MAY 12 2021

UST 179 DOCKETING

Re: **Site-Specific Work Plan Request for Groundwater Sampling**
378 Truck Stop, 731 Hwy 378, Edgefield, SC
UST Permit #07960
Release reported October 3, 1974
Monitoring Report received August 2, 2019
Edgefield County

Dear Mr. Wilkerson:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by your contractor. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels.

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations R.61-92, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan, and in compliance with all applicable regulations. A copy of the UST QAPP is available at SCDHEC.gov/Environment/Land-Waste/Underground-Storage-Tanks/Release-Assessment-Clean/Quality-Assurance.

Groundwater samples should be collected from all monitoring wells associated with this release along with all water supply wells within a 1,000 foot radius of the site. Samples should be analyzed for BTEX, Naphthalene, MTBE, 1,2-DCA, the 8 oxygenates, and EDB. All wells should be purged prior to sampling.

Your contractor must complete the SSWP and submit it within 30 days from the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

On all correspondence concerning this site, please reference UST Permit #07960. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0586, by fax at (803) 898-0673, or by e-mail at hippsc@dhec.sc.gov.

Sincerely,

Sawyer Hipp

Sawyer Hipp, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Geological Resources, Inc., 3502 Hayes Rd, Monroe, NC 28110
Technical file

DHEC

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

December 6, 2010

HATTIE SCURRY
730 HWY 378 EAST
EDGEFIELD, SC 29824-4102

18tech
UST
DOCKE

Re: Reimbursement For Bottled Water Purchase
378 Truck Stop, 731 Hwy 378 E, Edgefield, SC
UST Permit # 07960
GAC Installation Report received December 1, 2010
Telephone Correspondence on December 2, 2010
Edgefield County

Dear Ms. Scurry:

Per our phone conversation on December 2, 2010, I am sending you a W-9 Request For Taxpayer Identification Number and Certification form as well as an invoice form for your signature for you to complete and sign in order to reimburse you for the costs of your purchases of bottled drinking water. Please return the form to my attention as soon as possible to:

UST Management Division
Attn: Cathleen Ridgley
2600 Bull Street
Columbia, SC 29201

As you are aware the Granular Activated Carbon (GAC) Unit was installed on your well on November 18, 2010; the water was sampled and analyzed before and after traveling through the unit. No petroleum chemicals were reported in your water so the GAC Unit is working. I have attached that report for your information.

If you have any questions or concerns, please call me at (803) 896-6633.

Sincerely,

Cathleen Ridgley

Cathleen Ridgley, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Enc: W-9 Request For Taxpayer Identification Number and Certification Form
Invoice Form
WSW-1 GAC Installation Report

Cc: Technical File

S. Hipp

GAC Unit Installation and Maintenance

RECEIVED
MAY 24 2021
UST DIVISION

Date: 5/5/21

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 730 Hwy 378 East, Edgefield, SC (Scurry Residence)

GAC Unit Serial Number: Tank #
Controller #

UST DOCKET 180 400

NEW INSTALLATION

Date Installation Completed: ____________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* X Good

Condition of GAC Housing ______ In Need of Repair* X Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
■ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre, Pre Dupe and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #62802). Total gallons filtered : 155,194

GAC Unit Installation and Maintenance

Date: 5/5/21

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 724 Hwy 378 East, Edgefield, SC (Gordon Residence)

GAC Unit Serial Number: Tank #
Controller #

NEW INSTALLATION

Date Installation Completed: ____________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* __X__ Good

Condition of GAC Housing ______ In Need of Repair* __X__ Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
☐ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre, Pre Dupe and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #62802).

GAC Maintenance Report

Permit # 07960

Emerald Job # 304-C

Address	Serial #	Model #	Date Serviced	Condition of Unit	Samples Collected
730 Hwy 378 East, Edgefield, SC Scurry Residence			5/5/21	Needs Repairs ■ Good ☐	Pre-GAC ■ Dup-GAC ■ Mid-GAC ☐ Post-GAC ■
724 Hwy 378 East, Edgefield, SC Gordon Residence			5/5/21	Needs Repairs ☐ Good ■	Pre-GAC ■ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ■
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC

Notes:

Filter Disposal Method: Landfill

Service/Repairs:

Comments: Performed Carbon Filter change at Scurry & Gordon residences. Pre, and Post GAC samples were collected at the Gordon Residence with Pre, Pre Dup and Post GAC samples collected at the Scurry residence.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company:	SCDHEC
Address:	2600 BULL STREET
	COLUMBIA, SC 29201
Email To:	
Phone: 803-898-0589	Fax:
Requested Due Date/TAT:	

Section B
Required Project Information:

Report To:	Robert Dunn
Copy To:	
Purchase Order No.:	
Project Name:	378 Truck Stop
Project Number:	SCDHEC SITE ID# 07960,PACE CA#92802

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	T. Ezell
Pace Profile #:	

Page: of

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER ________

Site Location STATE: SC

Section D
Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	↓Analysis Test↓ Y/N	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	07960 SCURRY PRE-GAC	WT	G			5/5/21	1030		9				6		3				X	X	X		
2	07960 SCURRY PRE GAC DUP	WT	G				1032		9				6		3				X	X	X		
3	07960 SCURRY POST GAC	WT	G				1035		9				6		3				X	X	X		
4	07960 GORDON PRE-GAC	WT	G				1100		9				6		3				X	X	X		
5	07960 GORDON POST GAC	WT	G				1105		9				6		3				X	X	X		
6	07960 FIELD BLANK	WT	G				1115		9				6		3				X	X	X		
7	07960 TRIP BLANK	WT	G			5/5/21			4				4						X	X			
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Lee Stogner	5/5/21	1730	Josh Mallas	5/7/21	1355				
Emerald Inc										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lee Stogner

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5/5/21

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

CAe

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

Hupp

RECEIVED
MAY 14 2021
UST DIVISION

UST DOCKETING

May 12, 2021

Robert Dunn
SCDHEC
2600 Bull St
Columbia, SC 29201

RE: Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on May 07, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Coleman, Midlands Environmental Consultants, Inc.
Kyle Pudney, Midlands Environmental Consultants, Inc.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project:	378 Truck Stop 07960/62802
Pace Project No.:	92537786

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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Huntersville, NC 28078
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SAMPLE SUMMARY

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92537786001	**07960 SCURRY PRE-GAC**	Water	05/05/21 10:30	05/07/21 13:55
92537786002	**07960 SCURRY PRE GAC DUP**	Water	05/05/21 10:32	05/07/21 13:55
92537786003	**07960 SCURRY POST GAC**	Water	05/05/21 10:35	05/07/21 13:55
92537786004	**07960 GORDON PRE-GAC**	Water	05/05/21 11:00	05/07/21 13:55
92537786005	**07960 GORDON POST GAC**	Water	05/05/21 11:05	05/07/21 13:55
92537786006	**07960 FIELD BLANK**	Water	05/05/21 11:15	05/07/21 13:55
92537786007	**07960 TRIP BLANK**	Water	05/05/21 00:00	05/07/21 13:55

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SAMPLE ANALYTE COUNT

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92537786001	**07960 SCURRY PRE-GAC**	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	PM1	11	PASI-C
92537786002	**07960 SCURRY PRE GAC DUP**	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	PM1	11	PASI-C
92537786003	**07960 SCURRY POST GAC**	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	PM1	11	PASI-C
92537786004	**07960 GORDON PRE-GAC**	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	PM1	11	PASI-C
92537786005	**07960 GORDON POST GAC**	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	PM1	11	PASI-C
92537786006	**07960 FIELD BLANK**	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	PM1	11	PASI-C
92537786007	**07960 TRIP BLANK**	EPA 524.2	LMB	11	PASI-C
		EPA 8260D	PM1	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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SUMMARY OF DETECTION

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92537786001	**07960 SCURRY PRE-GAC**					
EPA 524.2	1,2-Dichloroethane	4.4	ug/L	0.50	05/11/21 09:47	
EPA 8260D	tert-Amyl Alcohol	125	ug/L	100	05/11/21 01:36	
92537786002	**07960 SCURRY PRE GAC DUP**					
EPA 524.2	1,2-Dichloroethane	4.6	ug/L	0.50	05/11/21 10:13	
EPA 8260D	tert-Amyl Alcohol	113	ug/L	100	05/11/21 02:48	

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PROJECT NARRATIVE

Project:	378 Truck Stop 07960/62802
Pace Project No.:	92537786

Method: **EPA 504.1**
Description: 504 GCS EDB and DBCP
Client: SCDHEC
Date: May 12, 2021

General Information:
6 samples were analyzed for EPA 504.1 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 504.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

Method: **EPA 524.2**
Description: 524.2 MSV SC List
Client: SCDHEC
Date: May 12, 2021

General Information:
7 samples were analyzed for EPA 524.2 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

Method: **EPA 8260D**
Description: 8260 MSV Low Level SC
Client: SCDHEC
Date: May 12, 2021

General Information:
7 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 619416

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92537770018

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 3258947)
  - tert-Butyl Formate
- MSD (Lab ID: 3258948)
  - tert-Butyl Formate

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

Sample: 07960 SCURRY PRE-GAC **Lab ID: 92537786001** Collected: 05/05/21 10:30 Received: 05/07/21 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.013	1	05/11/21 12:23	05/11/21 18:29	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	91	%	70-130		1	05/11/21 12:23	05/11/21 18:29	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.21	1		05/11/21 09:47	71-43-2	
1,2-Dichloroethane	**4.4**	ug/L	0.50	0.16	1		05/11/21 09:47	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		05/11/21 09:47	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		05/11/21 09:47	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		05/11/21 09:47	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		05/11/21 09:47	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		05/11/21 09:47	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		05/11/21 09:47	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		05/11/21 09:47	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		05/11/21 09:47	2199-69-1	
4-Bromofluorobenzene (S)	91	%	70-130		1		05/11/21 09:47	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**125**	ug/L	100	36.4	1		05/11/21 01:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		05/11/21 01:36	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		05/11/21 01:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		05/11/21 01:36	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		05/11/21 01:36	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		05/11/21 01:36	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		05/11/21 01:36	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		05/11/21 01:36	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/11/21 01:36	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		05/11/21 01:36	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		05/11/21 01:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

Sample: 07960 SCURRY PRE GAC DUP **Lab ID: 92537786002** Collected: 05/05/21 10:32 Received: 05/07/21 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.013	1	05/11/21 12:23	05/11/21 18:45	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	70-130		1	05/11/21 12:23	05/11/21 18:45	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.21	1		05/11/21 10:13	71-43-2	
1,2-Dichloroethane	**4.6**	ug/L	0.50	0.16	1		05/11/21 10:13	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		05/11/21 10:13	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		05/11/21 10:13	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		05/11/21 10:13	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		05/11/21 10:13	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		05/11/21 10:13	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		05/11/21 10:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		05/11/21 10:13	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		05/11/21 10:13	2199-69-1	
4-Bromofluorobenzene (S)	90	%	70-130		1		05/11/21 10:13	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**113**	ug/L	100	36.4	1		05/11/21 02:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		05/11/21 02:48	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		05/11/21 02:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		05/11/21 02:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		05/11/21 02:48	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		05/11/21 02:48	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		05/11/21 02:48	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		05/11/21 02:48	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/11/21 02:48	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		05/11/21 02:48	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		05/11/21 02:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

Sample: 07960 SCURRY POST GAC **Lab ID: 92537786003** Collected: 05/05/21 10:35 Received: 05/07/21 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.013	1	05/11/21 12:23	05/11/21 19:00	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	92	%	70-130		1	05/11/21 12:23	05/11/21 19:00	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.21	1		05/11/21 10:39	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		05/11/21 10:39	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		05/11/21 10:39	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		05/11/21 10:39	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		05/11/21 10:39	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		05/11/21 10:39	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		05/11/21 10:39	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		05/11/21 10:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		05/11/21 10:39	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	94	%	70-130		1		05/11/21 10:39	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130		1		05/11/21 10:39	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		05/11/21 01:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		05/11/21 01:00	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		05/11/21 01:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		05/11/21 01:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		05/11/21 01:00	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		05/11/21 01:00	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		05/11/21 01:00	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		05/11/21 01:00	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/11/21 01:00	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		05/11/21 01:00	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		05/11/21 01:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

Sample: 07960 GORDON PRE-GAC **Lab ID: 92537786004** Collected: 05/05/21 11:00 Received: 05/07/21 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.013	1	05/11/21 12:23	05/11/21 19:16	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	93	%	70-130		1	05/11/21 12:23	05/11/21 19:16	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.21	1		05/11/21 11:05	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		05/11/21 11:05	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		05/11/21 11:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		05/11/21 11:05	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		05/11/21 11:05	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		05/11/21 11:05	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		05/11/21 11:05	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		05/11/21 11:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		05/11/21 11:05	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		05/11/21 11:05	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130		1		05/11/21 11:05	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		05/11/21 02:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		05/11/21 02:30	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		05/11/21 02:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		05/11/21 02:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		05/11/21 02:30	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		05/11/21 02:30	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		05/11/21 02:30	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		05/11/21 02:30	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/11/21 02:30	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		05/11/21 02:30	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		05/11/21 02:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

Sample: 07960 GORDON POST GAC **Lab ID: 92537786005** Collected: 05/05/21 11:05 Received: 05/07/21 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.013	1	05/11/21 12:23	05/11/21 19:31	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	93	%	70-130		1	05/11/21 12:23	05/11/21 19:31	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.21	1		05/11/21 11:32	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		05/11/21 11:32	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		05/11/21 11:32	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		05/11/21 11:32	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		05/11/21 11:32	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		05/11/21 11:32	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		05/11/21 11:32	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		05/11/21 11:32	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		05/11/21 11:32	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	95	%	70-130		1		05/11/21 11:32	2199-69-1	
4-Bromofluorobenzene (S)	89	%	70-130		1		05/11/21 11:32	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		05/11/21 00:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		05/11/21 00:07	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		05/11/21 00:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		05/11/21 00:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		05/11/21 00:07	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		05/11/21 00:07	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		05/11/21 00:07	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		05/11/21 00:07	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/11/21 00:07	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		05/11/21 00:07	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		05/11/21 00:07	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

Sample: 07960 FIELD BLANK **Lab ID: 92537786006** Collected: 05/05/21 11:15 Received: 05/07/21 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.013	1	05/11/21 12:23	05/11/21 19:46	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	93	%	70-130		1	05/11/21 12:23	05/11/21 19:46	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.21	1		05/10/21 22:01	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		05/10/21 22:01	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		05/10/21 22:01	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		05/10/21 22:01	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		05/10/21 22:01	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		05/10/21 22:01	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		05/10/21 22:01	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		05/10/21 22:01	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		05/10/21 22:01	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	92	%	70-130		1		05/10/21 22:01	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130		1		05/10/21 22:01	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		05/10/21 23:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		05/10/21 23:31	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		05/10/21 23:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		05/10/21 23:31	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		05/10/21 23:31	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		05/10/21 23:31	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		05/10/21 23:31	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		05/10/21 23:31	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/10/21 23:31	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		05/10/21 23:31	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		05/10/21 23:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

Sample: 07960 TRIP BLANK **Lab ID: 92537786007** Collected: 05/05/21 00:00 Received: 05/07/21 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.21	1		05/10/21 22:28	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		05/10/21 22:28	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		05/10/21 22:28	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		05/10/21 22:28	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		05/10/21 22:28	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		05/10/21 22:28	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		05/10/21 22:28	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		05/10/21 22:28	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		05/10/21 22:28	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		05/10/21 22:28	2199-69-1	
4-Bromofluorobenzene (S)	90	%	70-130		1		05/10/21 22:28	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		05/10/21 22:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		05/10/21 22:01	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		05/10/21 22:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		05/10/21 22:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		05/10/21 22:01	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		05/10/21 22:01	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		05/10/21 22:01	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		05/10/21 22:01	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		05/10/21 22:01	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		05/10/21 22:01	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		05/10/21 22:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

QC Batch: 619444
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92537786006, 92537786007

METHOD BLANK: 3259096
Matrix: Water
Associated Lab Samples: 92537786006, 92537786007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.16	05/10/21 17:14	
Benzene	ug/L	ND	0.50	0.21	05/10/21 17:14	
Ethylbenzene	ug/L	ND	0.50	0.22	05/10/21 17:14	
m&p-Xylene	ug/L	ND	1.0	0.39	05/10/21 17:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.14	05/10/21 17:14	
Naphthalene	ug/L	ND	0.50	0.35	05/10/21 17:14	
o-Xylene	ug/L	ND	0.50	0.22	05/10/21 17:14	
Toluene	ug/L	ND	0.50	0.20	05/10/21 17:14	
Xylene (Total)	ug/L	ND	0.50	0.22	05/10/21 17:14	
1,2-Dichlorobenzene-d4 (S)	%	94	70-130		05/10/21 17:14	
4-Bromofluorobenzene (S)	%	93	70-130		05/10/21 17:14	

LABORATORY CONTROL SAMPLE: 3259097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	17.8	89	70-130	
Benzene	ug/L	20	17.6	88	70-130	
Ethylbenzene	ug/L	20	18.8	94	70-130	
m&p-Xylene	ug/L	40	37.6	94	70-130	
Methyl-tert-butyl ether	ug/L	20	18.4	92	70-130	
Naphthalene	ug/L	20	19.3	97	70-130	
o-Xylene	ug/L	20	18.6	93	70-130	
Toluene	ug/L	20	19.2	96	70-130	
Xylene (Total)	ug/L	60	56.2	94		
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

QC Batch: 619451 | Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 | Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92537786001, 92537786002, 92537786003, 92537786004, 92537786005

METHOD BLANK: 3259113 | Matrix: Water

Associated Lab Samples: 92537786001, 92537786002, 92537786003, 92537786004, 92537786005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.16	05/11/21 02:48	
Benzene	ug/L	ND	0.50	0.21	05/11/21 02:48	
Ethylbenzene	ug/L	ND	0.50	0.22	05/11/21 02:48	
m&p-Xylene	ug/L	ND	1.0	0.39	05/11/21 02:48	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.14	05/11/21 02:48	
Naphthalene	ug/L	ND	0.50	0.35	05/11/21 02:48	
o-Xylene	ug/L	ND	0.50	0.22	05/11/21 02:48	
Toluene	ug/L	ND	0.50	0.20	05/11/21 02:48	
Xylene (Total)	ug/L	ND	0.50	0.22	05/11/21 02:48	
1,2-Dichlorobenzene-d4 (S)	%	94	70-130		05/11/21 02:48	
4-Bromofluorobenzene (S)	%	91	70-130		05/11/21 02:48	

LABORATORY CONTROL SAMPLE: 3259114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	17.8	89	70-130	
Benzene	ug/L	20	17.3	87	70-130	
Ethylbenzene	ug/L	20	18.4	92	70-130	
m&p-Xylene	ug/L	40	37.1	93	70-130	
Methyl-tert-butyl ether	ug/L	20	17.4	87	70-130	
Naphthalene	ug/L	20	17.7	88	70-130	
o-Xylene	ug/L	20	18.2	91	70-130	
Toluene	ug/L	20	18.0	90	70-130	
Xylene (Total)	ug/L	60	55.3	92		
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

QC Batch: 619416 | Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D | Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92537786001, 92537786002, 92537786003, 92537786004, 92537786005, 92537786006, 92537786007

METHOD BLANK: 3258945 Matrix: Water
Associated Lab Samples: 92537786001, 92537786002, 92537786003, 92537786004, 92537786005, 92537786006, 92537786007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	05/10/21 21:25	
Diisopropyl ether	ug/L	ND	1.0	0.31	05/10/21 21:25	
Ethanol	ug/L	ND	200	72.2	05/10/21 21:25	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	05/10/21 21:25	
tert-Amyl Alcohol	ug/L	ND	100	36.4	05/10/21 21:25	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	05/10/21 21:25	
tert-Butyl Alcohol	ug/L	ND	100	26.8	05/10/21 21:25	
tert-Butyl Formate	ug/L	ND	50.0	29.4	05/10/21 21:25	
1,2-Dichloroethane-d4 (S)	%	97	70-130		05/10/21 21:25	
4-Bromofluorobenzene (S)	%	98	70-130		05/10/21 21:25	
Toluene-d8 (S)	%	97	70-130		05/10/21 21:25	

LABORATORY CONTROL SAMPLE: 3258946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1160	116	70-130	
Diisopropyl ether	ug/L	50	52.5	105	70-130	
Ethanol	ug/L	2000	2480	124	70-130	
Ethyl-tert-butyl ether	ug/L	100	108	108	70-130	
tert-Amyl Alcohol	ug/L	1000	1110	111	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	590	118	70-130	
tert-Butyl Formate	ug/L	400	431	108	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3258947 3258948

Parameter	Units	92537770018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	364	457	91	114	39-157	22	30	
Diisopropyl ether	ug/L	ND	20	20	18.5	21.5	92	108	63-144	15	30	
Ethanol	ug/L	ND	800	800	931	1030	116	129	39-176	10	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	40.2	47.2	100	118	66-137	16	30	
tert-Amyl Alcohol	ug/L	ND	400	400	415	484	104	121	54-153	15	30	
tert-Amylmethyl ether	ug/L	ND	40	40	39.2	47.2	98	118	69-139	18	30	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3258947 3258948

Parameter	Units	92537770018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
tert-Butyl Alcohol	ug/L	ND	200	200	269	317	135	158	43-188	16	30	
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	10-170		30	P5
1,2-Dichloroethane-d4 (S)	%						95	94	70-130			
4-Bromofluorobenzene (S)	%						99	102	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

QC Batch: 619539 | Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 | Analysis Description: GCS 504 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92537786001, 92537786002, 92537786003, 92537786004, 92537786005, 92537786006

METHOD BLANK: 3259303 Matrix: Water
Associated Lab Samples: 92537786001, 92537786002, 92537786003, 92537786004, 92537786005, 92537786006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.013	05/11/21 13:38	
1-Chloro-2-bromopropane (S)	%	91	70-130		05/11/21 13:38	

LABORATORY CONTROL SAMPLE & LCSD: 3259304 3259305

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.26	0.25	103	100	70-130	4	20	
1-Chloro-2-bromopropane (S)	%				97	95	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3259307 3259308

Parameter	Units	92537762002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.27	0.28	111	114	65-135	3	20	
1-Chloro-2-bromopropane (S)	%						106	108	70-130			

SAMPLE DUPLICATE: 3259306

Parameter	Units	92537762001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	96	97			

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QUALIFIERS

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 Truck Stop 07960/62802
Pace Project No.: 92537786

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92537786001	07960 SCURRY PRE-GAC	EPA 504.1	619539	EPA 504.1	619658
92537786002	07960 SCURRY PRE GAC DUP	EPA 504.1	619539	EPA 504.1	619658
92537786003	07960 SCURRY POST GAC	EPA 504.1	619539	EPA 504.1	619658
92537786004	07960 GORDON PRE-GAC	EPA 504.1	619539	EPA 504.1	619658
92537786005	07960 GORDON POST GAC	EPA 504.1	619539	EPA 504.1	619658
92537786006	07960 FIELD BLANK	EPA 504.1	619539	EPA 504.1	619658
92537786001	07960 SCURRY PRE-GAC	EPA 524.2	619451		
92537786002	07960 SCURRY PRE GAC DUP	EPA 524.2	619451		
92537786003	07960 SCURRY POST GAC	EPA 524.2	619451		
92537786004	07960 GORDON PRE-GAC	EPA 524.2	619451		
92537786005	07960 GORDON POST GAC	EPA 524.2	619451		
92537786006	07960 FIELD BLANK	EPA 524.2	619444		
92537786007	07960 TRIP BLANK	EPA 524.2	619444		
92537786001	07960 SCURRY PRE-GAC	EPA 8260D	619416		
92537786002	07960 SCURRY PRE GAC DUP	EPA 8260D	619416		
92537786003	07960 SCURRY POST GAC	EPA 8260D	619416		
92537786004	07960 GORDON PRE-GAC	EPA 8260D	619416		
92537786005	07960 GORDON POST GAC	EPA 8260D	619416		
92537786006	07960 FIELD BLANK	EPA 8260D	619416		
92537786007	07960 TRIP BLANK	EPA 8260D	619416		

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Pace Analytical	Document Name: **Sample Condition Upon Receipt(SCUR)**	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: **F-CAR-CS-033-Rev.07**	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: SCDHEC

Project #: **WO# : 92537786**

92537786

~~Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client~~
☐ Commercial ☒ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Date/Initials Person Examining Contents: 5.10.21 W

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☒ IR Gun ID: 92T064

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 3.2 **Correction Factor:** Add/Subtract (°C) 0.0°C

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.2

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☒ No	☐ N/A	10.
Trip Blank Present?	☒ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☒ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: ____________ Date/Time: ____________

Project Manager SCURF Review: ____________ **Date:** ____________

Project Manager SRF Review: ____________ **Date:** ____________

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

Project # WO#: 92537786

PM: AMB Due Date: 05/14/21

CLIENT: 92-SCDHEC

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A
1																6	3											
2																6	3											
3																6	3											
4																6	3											
5																6	3											
6																6	3											
7																4												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A Required Client Information:

Company:	SCDHEC
Address:	2600 BULL STREET
	COLUMBIA, SC 29201
Email To:	
Phone:	803-898-0589 Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Robert Dunn
Copy To:	
Purchase Order No.:	
Project Name:	378 Truck Stop
Project Number:	SCDHEC SITE ID# 07960,PACE CA#92802

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	T. Ezell
Pace Profile #:	

REGULATORY AGENCY

- [ ] NPDES
- [ ] GROUND WATER
- [ ] DRINKING WATER
- [x] UST
- [ ] RCRA
- [ ] OTHER

Site Location STATE: SC

Section D Required Client Information

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92537786
1	07960 SCURRY PRE-GAC	WT	G			5/5/21	1020		9				6		3				x	x	x		001
2	07960 SCURRY PRE GAC DUP	WT	G				1032		9				6		3				x	x	x		002
3	07960 SCURRY POST GAC	WT	G				1035		9				6		3				x	x	x		003
4	07960 GORDON PRE-GAC	WT	G				1100		9				6		3				x	x	x		004
5	07960 GORDON POST GAC	WT	G				1105		9				6		3				x	x	x		005
6	07960 FIELD BLANK	WT	G				1115		9				6		3				x	x	x		006
7	07960 TRIP BLANK	WT	G			5/5/21			4				4						x	x			007
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Lee Stogner	5/5/21	1730	Josh Mallas	5/7/21	1355	6.0			
	Josh Mallas	5/7/21	1835	HVL	5/7/21	1835	~~7.2~~			
Emerald Inc							3.2	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lee Stogner

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5/5/21

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Geological Resources, Inc.

UST DOCKETING 181T

UST DIVISION Sawyer MAY 28 2021

May 25, 2021

Mr. Sawyer Hipp
South Carolina Department of Health
And Environmental Control
Underground Storage Tank Management Division
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

Re: GRI Proposal No. 21-331
Site Specific Work Plan
378 Truck Stop
731 Highway 378
Edgefield, Edgefield County
UST Permit No. 07960
GRI Project No. 4422

Dear Mr. Hipp:

Attached is a Site Specific Work Plan for approved ACQAP and the associated Assessment Component Cost Agreement for the above referenced site in Edgefield, Edgefield County, South Carolina.

Please contact me at (704) 845-4010 or by e-mail at wsb@geologicalresourcesinc.com if you have questions or comments concerning this matter.

Sincerely,

W. Scott Ball

W. Scott Ball
Senior Project Manager

JOHN M. BROWN REGISTERED No. 1116 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

John M. Brown

John M. Brown, P.G.
License #1116

Enclosures

cc: file

Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

To: Sawyer Hipp (SCDHEC Project Manager)
From: Scott Ball (Contractor Project Manager)
Contractor: Geological Resources, Inc. UST Contractor Certification Number: 74

Facility Name: 378 Truck Stop UST Permit #: 07960
Facility Address: 731 Highway 378, Edgefield, Edgefield County,
Responsible Party: Wilkerson Fuel Company Phone: (803) 324-4080
RP Address: PO Box 2835, Rock Hill, SC 29732
Property Owner (if different): Old Truck Stop, LLC
Property Owner Address: 102 Faulkner Mountain Road, Edgefield, SC 29824
Current Use of Property: Vacant, unoccupied

Scope of Work (Please check all that apply)

- ☐ IGWA
- ☐ Tier I
- ☐ Tier II
- ☐ Monitoring Well Installation
- ☑ Groundwater Sampling
- ☐ Other ______
- ☐ GAC

Analyses (Please check all that apply)

Groundwater/Surface Water:

- ☑ BTEXNMDCA (8260B)
- ☑ Oxygenates (8260B)
- ☑ EDB (8011)
- ☐ PAH (8270D)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other ______
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Drinking Water Supply Wells:

- ☑ BTEXNMDCA (524.2)
- ☑ Oxygenates & Ethanol (8260B)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☑ EDB (504.1)

Soil:

- ☐ BTEXNM
- ☐ PAH
- ☐ Lead
- ☐ RCRA Metals
- ☐ Oil & Grease (9071)
- ☐ TPH-DRO (3550B/8015B)
- ☐ TPH-GRO (5030B/8015B)
- ☐ Grain Size
- ☐ TOC

Air:

- ☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

____ Soil	16 Water Supply Wells	____ Air	4 Field Blank
42 Monitoring Wells	____ Surface Water	4 Duplicate	2 Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: NA Estimated Footage: ______ feet per point
# of deep points proposed: NA Estimated Footage: ______ feet per point
Field Screening Methodology: NA

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: NA Estimated Footage: ______ feet per point
# of deep wells: NA Estimated Footage: ______ feet per point
# of recovery wells: NA Estimated Footage: ______ feet per point
Comments, if warranted:

UST Permit #: 07960 Facility Name: 378 Truck Stop

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 20 days from approval and access is granted Field Work Completion: 30 days from approval
Report Submittal: 60 days from approval # of Copies Provided to Property Owners: 1

Aquifer Characterization
Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal
Soil: ______ Tons Purge Water: 500 Gallons
Drilling Fluids: ______ Gallons Free-Phase Product: ______ Gallons

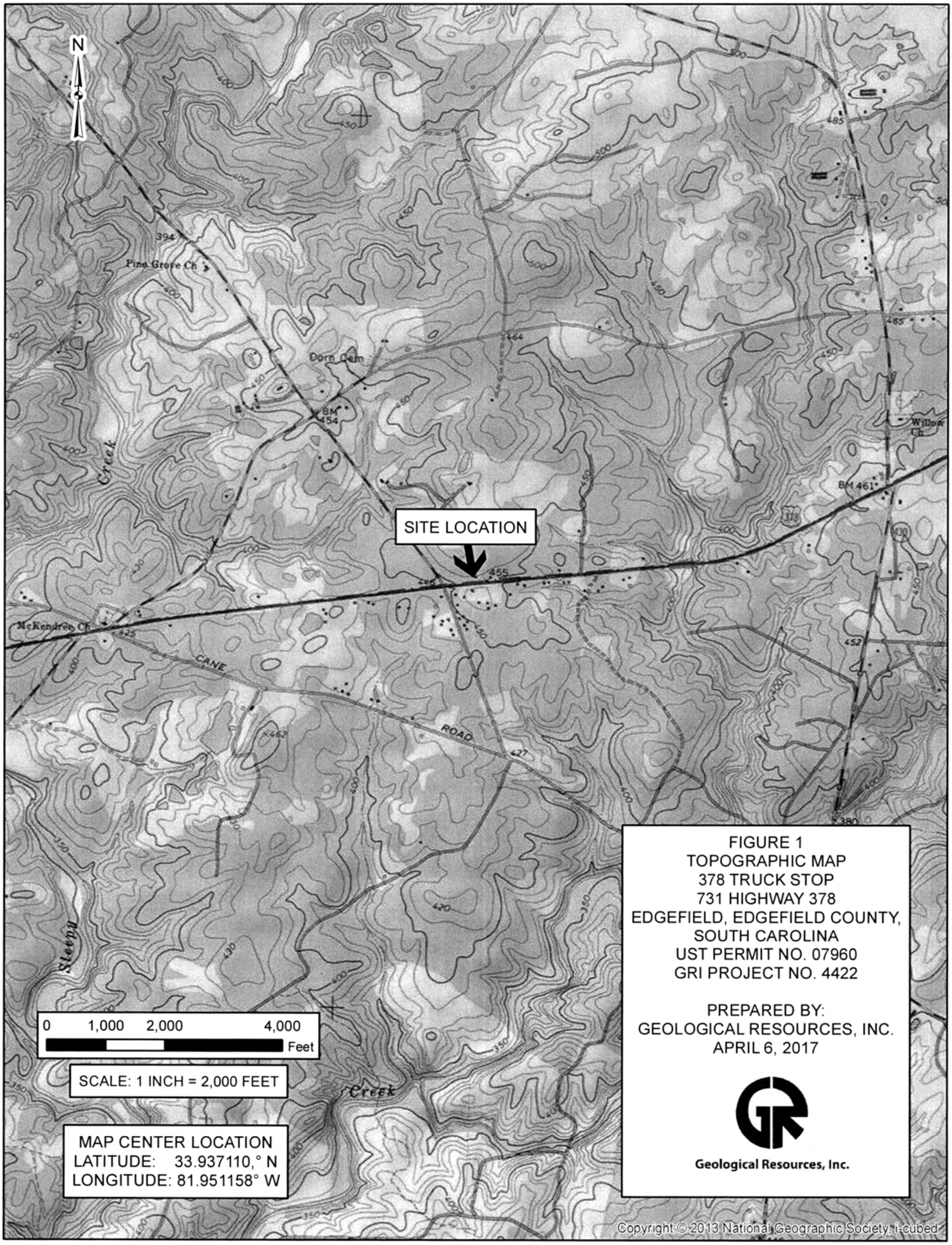
Additional Details For This Scope of Work
For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.
Sample monitor wells (MW) MW-1 through MW-31 and TW-1 through TW-11. All wells will be purged prior to sampling.
Sample water supply wells (WSW) WSW-1 through WSW-15 and WSW-X.
MW samples will be submitted for analyses of BTEX, MTBE, naphthalene, 1,2-DCA and 8 oxygenates by Method 8260 and EDB by Method 8011.
Three MW samples will be duplicated. Three field blanks and one trip blank will be submitted.
WSW samples will be submitted for analyse of BTEX, MTBE, naphthalene, 1,2-DCA by Method 524.2, 8 Oxygenates by Method 8260, & EDB by Method 504.1. One WSW sample will be duplicated. One field blank and one trip blank will be submitted.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory: ______
SCDHEC Certification Number: ______
Name of Laboratory Director: ______

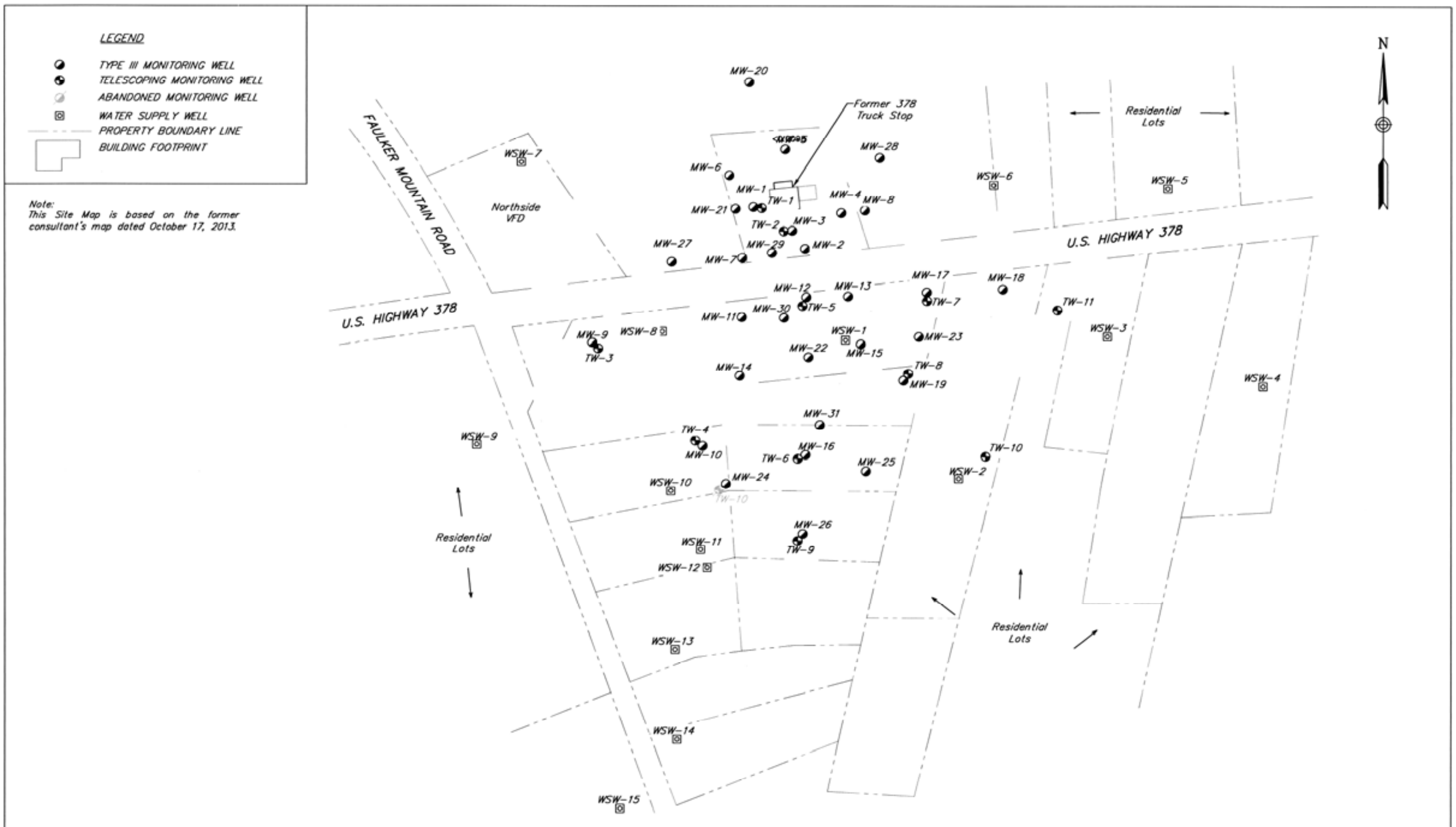
NA Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.
Name of Well Driller: ______
SCLLR Certification Number: ______

No Other variations from ACQAP. Please describe below.

Attachments
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



N
SITE LOCATION
Pine Grove Ch
Dorn Cem
McKendree Ch
CANE
ROAD
Creek
Sleepy
Willow Ch
BM 454
BM 461
0 1,000 2,000 4,000
Feet
SCALE: 1 INCH = 2,000 FEET
MAP CENTER LOCATION
LATITUDE: 33.937110,° N
LONGITUDE: 81.951158° W
FIGURE 1
TOPOGRAPHIC MAP
378 TRUCK STOP
731 HIGHWAY 378
EDGEFIELD, EDGEFIELD COUNTY,
SOUTH CAROLINA
UST PERMIT NO. 07960
GRI PROJECT NO. 4422
PREPARED BY:
GEOLOGICAL RESOURCES, INC.
APRIL 6, 2017
Geological Resources, Inc.
Copyright: © 2013 National Geographic Society, i-cubed



Geological Resources, Inc.

0 75 150 300
(IN FEET)
1 inch = 150 ft

SITE MAP

378 Truck Stop UST Permit No. 07960 GRI Project No. 4422		731 Highway 378 Edgefield, Edgefield County, SC		
Date: 07/22/19	Drawn by:	DTH	Figure:	2

Healthy People. Healthy Communities.

ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
January 1, 2020

Facility Name: 378 Truck Stop

GRI Prop. No. 21-331

UST Permit #: 07960 **Cost Agreement #:** ______

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
A. **Plan Preparation**				
1. Site-specific Work Plan	1	each	$160.05	$160.05
2. Tax Map		each	$74.69	$0.00
3. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00	$0.00
B. **Receptor Survey** *		each	$587.92	$0.00
C. **Survey (500 ft x 500 ft)**				
1. Comprehensive Survey		each	$1,109.68	$0.00
Subsurface Geophysical Survey				
2. < 10 meters below grade		each	$1,387.10	$0.00
3. > 10 meters below grade		each	$2,464.77	$0.00
4. Geophysical UST or Drum Survey		each	$970.97	$0.00
D. **Mob/Demob**				
1. Equipment		each	$1,088.34	$0.00
2. Personnel	3	each	$451.34	$1,354.02
3. Adverse Terrain Vehicle		each	$533.50	$0.00
E.. **Soil Borings (hand auger)***		foot	$5.34	$0.00
F. **Soil Borings (requiring equipment, push technology, etc) or Field Screening (including water ssample, soil sample, soil gas sample, etc.)***				
1. Standard		per foot	$16.01	$0.00
2. Fractured Rock		per foot	$21.55	$0.00
G. **Soil Leachability Model**		each	$64.02	$0.00
H. **Abandonment (per foot)***				
1. 2" diameter or less		per foot	$3.31	$0.00
2. Greater than 2" to 6" diameter		per foot	$4.80	$0.00
3. Dug/Bored well (up to 6 feet diameter)		per foot	$16.00	$0.00
I. **Well Installation (per foot)***				
1. Water Table (hand augered)		per foot	$11.31	$0.00
2. Water Table (drill rig) 2" Diameter		per foot	$40.55	$0.00
3. Telescoping		per foot	$53.35	$0.00
4. Rock Drilling		per foot	$61.89	$0.00
5. 2" Rock Coring		per foot	$32.97	$0.00
6. Rock Multi-sampling ports/screens		per foot	$35.64	$0.00
7. Recovery Well (4" diameter)		per foot	$48.02	$0.00
8. Pushed Pre-packed screen (1.25" dia)		per foot	$16.01	$0.00
9. Rotosonic (2" diameter)		per foot	$46.95	$0.00
10. Re-develop Existing Well		per foot	$11.74	$0.00

J. **Groundwater Sample Collection / Gauge Depth to Water or Product ***					
1. Groundwater Purge	42	per well	$64.02		$2,688.84
2. Air or Vapors		sample	$12.80		$0.00
3. Water Supply Sample or Duplicate	17	sample	$23.47		$398.99
4. Groundwater No Purge or Duplicate or Grab	3	sample	$29.88		$89.64
5. Gauge Well only		sample	$7.47		$0.00
6. Sample Below Product		sample	$12.80		$0.00
7. Passive Diffusion Bag		sample	$27.74		$0.00
8. Field Blank	4	sample	$26.25		$105.00
9. Groundwater (low flow purge)		sample	$97.10		$0.00
10. Equipment Blank		sample	$26.25		$0.00
K. Laboratory Analyses-Groundwater					
1. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	49	per sample	$130.17		$6,378.33
2. Lead, Filtered		per sample	$14.72		$0.00
3. Rush EPA Method 8260B		per sample	$163.89		$0.00
4. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$29.88		$0.00
5. PAH's		per sample	$64.66		$0.00
6. Lead		per sample	$17.07		$0.00
7. EDB by EPA 8011	48	per sample	$48.23		$2,315.04
8. EDB by EPA Method 8011 Rush		per sample	$72.77		$0.00
9. 8 RCRA Metals		per sample	$67.65		$0.00
10. TPH (9070)		per sample	$43.75		$0.00
11. PH		per sample	$5.55		$0.00
12. BOD		per sample	$21.34		$0.00
13. Ethanol		per sample	$15.79		$0.00
K. Analyses-Drinking Water					
14. BTEXNM+1,2 DCA (524.2)	19	per sample	$132.36		$2,514.84
15. 7-OXYGENATES & ETHANOL (8260B)	19	per sample	$97.90		$1,860.10
16. EDB (504.1)	18	per sample	$84.83		$1,526.94
17. RCRA METALS (200.8)		per sample	$106.70		$0.00
K. **Analyses-Soil**					
18. BTEX + Naphth.		per sample	$68.29		$0.00
19. PAH's		per sample	$68.33		$0.00
20. 8 RCRA Metals		per sample	$60.18		$0.00
21. TPH-DRO (3550C/8015C)		per sample	$42.68		$0.00
22. TPH- GRO (5035B/8015C)		per sample	$38.37		$0.00
23. Grain size/hydrometer		per sample	$110.97		$0.00
24. Total Organic Carbon		per sample	$32.65		$0.00
K. **Analyses-Air**					
25. BTEX + Naphthalene		per sample	$230.47		$0.00
K. **Analyses-Free Phase Product**					
26. Hydrocarbon Fuel Identification		per sample	$380.92		$0.00
L. **Aquifer Characterization***					
1. Pumping Test		per hour	$24.54		$0.00
2. Slug Test		per test	$203.80		$0.00
3. Fractured Rock		per test	$106.70		$0.00

M. **Free Product Recovery Rate Test***		each	$40.55		$0.00
N. **Fate/Transport Modeling**					
1. Mathematical Model		each	$106.70		$0.00
2. Computer Model		each	$106.70		$0.00
O. **Risk Evaluation**					
1. Tier I Risk Evaluation		each	$320.10		$0.00
2. Tier II Risk Evaluation		each	$106.70		$0.00
P. **Subsequent Survey***		each	$260.00		$0.00
Q. **Disposal (gallons or tons)***					
1. Wastewater	500	gallon	$0.60		$300.00
2. Free Product		gallon	$0.53		$0.00
3. Soil Treatment/Disposal		ton	$64.02		$0.00
4. Drilling fluids		gallon	$0.45		$0.00
R. **Miscellaneous (attach receipts)**					
		each	$0.00		$0.00
		each	$0.00		$0.00
		each	$0.00		$0.00
T. **Tier I Assessment (Use DHEC 3665 form)**					
1. Southeast Region		standard	$11,026.00		$0.00
2. All Other Counties		standard	$12,093.00		$0.00
U. IGWA (Use DHEC 3666 form)					
1. Southeast Region		standard	$3,803.00		$0.00
2. All Other Counties		standard	$4,123.00		$0.00
22. **Corrective Action (Use DHEC 3667 form)**		PFP Bid			$0.00
W. **Aggressive Fluid & Vapor Recovery (AFVR)**					
1. 8-hour Event*		per event	$1,467.13		$0.00
2. 24-hour Event*		per event	$4,081.28		$0.00
3. 48-hour Event*		per event	$6,706.10		$0.00
4. 96-hour Event*		per event	$13,409.52		$0.00
5. Off-gas Treatment 8 hour		per event	$130.71		$0.00
6. Off-gas Treatment 24 hour		per event	$257.68		$0.00
7. Off-gas Treatment 48 hour		per event	$348.91		$0.00
8. Off-gas Treatment 96 hour		per event	$832.26		$0.00
9. Off-gas Treatment 8 hour (w/chlorinated compounds)		per event	$430.00		$0.00
10. Off-gas Treatment 24 hour (w/chlorinated compounds)		per event	$500.00		$0.00
11. Off-gas Treatment 48 hour (w/chlorinated compounds)		per event	$1,000.00		$0.00
12. Off-gas Treatment 96 hour (w/chlorinated compounds)		per event	$2,000.00		$0.00
13. AFVR Effluent Disposal(w/chlorinated compounds)		gallon	$0.50		$0.00
14. AFVR Site Reconnaissance		each	$216.87		$0.00
15. Additional Hook-ups		each	$27.48		$0.00
16. AFVR Effluent Disposal		gallon	$0.47		$0.00
17. AFVR Mobilization/Demobilization		each	$417.73		$0.00

X. **Granulated Activated Carbon (GAC) filter system installation & service:**					
1. New GAC System Installation*		each	$2,027.30		$0.00
2. Refurbished GAC Sys. Install*		each	$960.30		$0.00
3. Filter replacement/removal*		each	$373.45		$0.00
4. GAC System removal, cleaning, & refurbishment*		each	$293.43		$0.00
5. GAC System housing*		each	$266.75		$0.00
6. In-line particulate filter		each	$160.05		$0.00
7. Additional piping & fittings		foot	$1.60		$0.00
Y. **Well Repair**					
1. Additional Copies of the Report Delivered		each	$53.35		$0.00
2. Repair 2x2 MW pad*		each	$53.35		$0.00
3. Repair 4x4 MW pad*		each	$93.90		$0.00
4. Replace well vault*		each	$125.91		$0.00
5. Replace well cover bolts		each	$2.77		$0.00
6. Replace locking well cap & lock		each	$16.00		$0.00
7. Replace/Repair stick-up*		each	$142.98		$0.00
8. Convert Flush-mount to Stick-up*		each	$160.05		$0.00
9. Convert Stick-up to Flush-mount*		each	$138.71		$0.00
10. Replace missing/illegible well ID plate		each	$12.80		$0.00
S. Report Prep & Project Management	12%	percent	$19,691.79		$2,363.01
TOTAL					$22,054.80

DHEC D-4074 (1-2020) *The appropriate mobilization cost can be added to complete these tasks, as necessary

dhec

Healthy People. Healthy Communities.

JUN 16 2021

UST 1827 DOCKETING

FRANK WILKERSON
WILKERSON FUEL CO INC
PO BOX 2835
ROCK HILL SC 29732

Re: **Site Specific Work Plan Approval and Groundwater Sampling Notice to Proceed**
378 Truck Stop, 731 HWY 378, Edgefield, SC
UST Permit #07960; CA #63870
Release #1 reported October 3, 1974
Site Specific Work Plan received May 28, 2021
Edgefield County

Dear Mr. Wilkerson:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site Specific Work Plan (SSWP) submitted by your contractor. All work should be conducted in compliance with the most recent revision of the UST QAPP, your contractor's Annual Contractor Quality Assurance Plan, and all applicable regulations. A copy of the current revision of the UST QAPP is available at scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

The groundwater sampling event should begin immediately upon receipt of this letter. The Cost Agreement number shown above has been approved for the amount shown on the enclosed cost agreement form.

The contractor must provide notification to the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes to the schedule, the UST Project Manager must be contacted within 24 hours of those changes.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. **The Monitoring Report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the UST Division within sixty (60) days of the date of this correspondence.** If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that the SUPERB Account cannot compensate any costs that are not pre-approved. If for any reason additional tasks will be completed, these additional tasks, and the associated cost, must be pre-approved by the UST Division for the cost to be paid. The UST Division reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the UST Division reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by a DHEC-certified site rehabilitation contractor as required by the SUPERB Site Rehabilitation and Fund Access Regulation, R.61-98.

The UST Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the Chemical of Concern (CoC) concentrations based on laboratory analysis is below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on-site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference the UST Permit number above. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-0586, by fax at (803) 898-0673, or by e-mail at hippsc@dhec.sc.gov.

Sincerely,

Sawyer Hipp

Sawyer Hipp, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Geological Resources Inc., 3502 Hayes Rd, Monroe, NC 28110 (w/ enc)
Technical file (w/ enc)

Approved Cost Agreement 63870

Facility: 07960 378 TRUCK STOP
HIPPSC
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
A PLAN PREPARATION					
		1 SITE SPECIFIC WORK PLAN	1.0000	$160.050	160.05
D MOB/DEMOB					
		2 PERSONNEL	3.0000	$451.340	1,354.02
J SAMPLE COLLECTION					
		1 GROUND WATER PURGE	42.0000	$64.020	2,688.84
		3 WATER SUPPLY SAMPLE/ DUPLICATE	17.0000	$23.470	398.99
		4 GROUNDWATER NO-PURGE/DUPL/GRAB	3.0000	$29.880	89.64
		8 FIELD BLANK	4.0000	$26.250	105.00
K ANALYSES					
	DW DRINKING WATER	14 BTEXNM+1,2 DCA (524.2) WSW	19.0000	$132.360	2,514.84
		15 OXYGENATES & ETHANOL 8260B WSW	19.0000	$97.900	1,860.10
		16 EDB (504.1) WSW	18.0000	$84.830	1,526.94
	GW GROUNDWATER	1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	49.0000	$130.170	6,378.33
		7 EDB BY EPA 8011	48.0000	$48.230	2,315.04
Q DISPOSAL					
		1 WASTEWATER	500.0000	$0.600	300.00
S REPORT PROJECT MANAGEMENT					
		S REPORT PREP & PROJ. MANAGEMENT	0.1200	$19,691.790	2,363.01
			Total Amount		22,054.80

Hipp

GAC Unit Installation and Maintenance

Date: 6/25/21

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 730 Hwy 378 East, Edgefield, SC (Scurry Residence)

GAC Unit Serial Number: Tank #

Controller #

UST
JUL 2 0 2021
PROGRAM

NEW INSTALLATION

UST
1837
DOCKETING

Date Installation Completed: ____________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ________ In Need of Repair* X Good

Condition of GAC Housing ________ In Need of Repair* X Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

- ■ Pre-GAC
- ■ Pre-GAC DUP
- ☐ Mid-GAC
- ■ Post-GAC

Comments: Pre, Pre Dup and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #62802). Total gallons filtered : 156,278

GAC Unit Installation and Maintenance

Date: 6/25/21

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 724 Hwy 378 East, Edgefield, SC (Gordon Residence)

GAC Unit Serial Number: Tank #
Controller #

NEW INSTALLATION

Date Installation Completed: ____________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* X Good

Condition of GAC Housing ______ In Need of Repair* X Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

- ■ Pre-GAC
- ☐ Pre-GAC DUP
- ☐ Mid-GAC
- ■ Post-GAC

Comments: Pre, Pre Dup and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #62802).

GAC Maintenance Report

Permit # 07960

Emerald Job # 304-D

Address	Serial #	Model #	Date Serviced	Condition of Unit	Samples Collected
730 Hwy 378 East, Edgefield, SC Scurry Residence			6/25/21	Needs Repairs ■ Good ☐	Pre-GAC ■ Dup-GAC ■ Mid-GAC ☐ Post-GAC ■
724 Hwy 378 East, Edgefield, SC Gordon Residence			6/25/21	Needs Repairs ☐ Good ■	Pre-GAC ■ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ■
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC

Notes:

Filter Disposal Method: Landfill

Service/Repairs:

Comments: Performed Carbon Filter change at Scurry & Gordon residences. Pre, and Post GAC samples were collected at the Gordon Residence with Pre, Pre Dup and Post GAC samples collected at the Scurry residence.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: / of /

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: SCDHEC	Report To: Robert Dunn	Attention:
Address: 2600 BULL STREET	Copy To:	Company Name:
COLUMBIA, SC 29201		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: 803-898-0589 Fax:	Project Name: 378 Truck Stop	Pace Project Manager: T. Ezell
Requested Due Date/TAT:	Project Number: SCDHEC SITE ID# 07960,PACE CA#92802	Pace Profile #:

REGULATORY AGENCY

- [ ] NPDES
- [ ] GROUND WATER
- [ ] DRINKING WATER
- [x] UST
- [ ] RCRA
- [ ] OTHER

Site Location STATE: SC

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	07960 SCURRY PRE-GAC	WT	G			6-25-21	1025		9				6		3				x	x	x		
2	07960 SCURRY PRE GAC DUP	WT	G				1028		9				6		3				x	x	x		
3	07960 SCURRY POST GAC	WT	G				1035		9				6		3				x	x	x		
4	07960 GORDON PRE-GAC	WT	G				1145		9				6		3				x	x	x		
5	07960 GORDON POST GAC	WT	G				1150		9				6		3				x	x	x		
6	07960 FIELD BLANK	WT	G				1040		9				6		3				x	x	x		
7	07960 TRIP BLANK	WT	G				—		4				4						x	x			
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Cody Papp / Emerald Inc	6-25-21	1450	Josh Mallas	6/25/21	1445				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cody Papp

SIGNATURE of SAMPLER: Cody Papp

DATE Signed (MM/DD/YY): 6-25-21

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

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GAL
B. Baldwin

RECEIVED
JUL 02 2021
UST DIVISION

June 30, 2021

Robert Dunn
SCDHEC
2600 Bull St
Columbia, SC 29201

RE: Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on June 25, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lindsey Wooten

Lindsey N Wooten
lindsey.wooten@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Coleman, Midlands Environmental Consultants, Inc.
Kyle Pudney, Midlands Environmental Consultants, Inc.

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CERTIFICATIONS

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92546590001	**07960 SCURRY PRE-GAC**	Water	06/25/21 10:25	06/25/21 14:45
92546590002	**07960 SCURRY PRE-GAC DUP**	Water	06/25/21 10:28	06/25/21 14:45
92546590003	**07960 SCURRY POST-GAC**	Water	06/25/21 10:35	06/25/21 14:45
92546590004	**07960 GORDON PRE-GAC**	Water	06/25/21 11:45	06/25/21 14:45
92546590005	**07960 GORDON POST-GAC**	Water	06/25/21 11:50	06/25/21 14:45
92546590006	**07960 FIELD BLANK**	Water	06/25/21 10:40	06/25/21 14:45
92546590007	**07960 TRIP BLANK**	Water	06/25/21 00:00	06/25/21 14:45

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SAMPLE ANALYTE COUNT

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92546590001	**07960 SCURRY PRE-GAC**	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	PM1	11	PASI-C
92546590002	**07960 SCURRY PRE-GAC DUP**	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	PM1	11	PASI-C
92546590003	**07960 SCURRY POST-GAC**	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	PM1	11	PASI-C
92546590004	**07960 GORDON PRE-GAC**	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	PM1	11	PASI-C
92546590005	**07960 GORDON POST-GAC**	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	PM1	11	PASI-C
92546590006	**07960 FIELD BLANK**	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	PM1	11	PASI-C
92546590007	**07960 TRIP BLANK**	EPA 524.2	LMB	11	PASI-C
		EPA 8260D	PM1	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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SUMMARY OF DETECTION

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92546590001	**07960 SCURRY PRE-GAC**					
EPA 524.2	1,2-Dichloroethane	5.2	ug/L	0.50	06/28/21 20:07	
EPA 8260D	tert-Amyl Alcohol	75.0J	ug/L	100	06/28/21 19:48	
92546590002	**07960 SCURRY PRE-GAC DUP**					
EPA 524.2	1,2-Dichloroethane	3.0	ug/L	0.50	06/28/21 20:33	
EPA 8260D	tert-Amyl Alcohol	70.2J	ug/L	100	06/28/21 20:06	

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PROJECT NARRATIVE

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

Method: **EPA 504.1**
Description: 504 GCS EDB and DBCP
Client: SCDHEC
Date: June 30, 2021

General Information:
6 samples were analyzed for EPA 504.1 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 504.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

Method: **EPA 524.2**
Description: 524.2 MSV SC List
Client: SCDHEC
Date: June 30, 2021

General Information:
7 samples were analyzed for EPA 524.2 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

Method: **EPA 8260D**
Description: 8260 MSV Low Level SC
Client: SCDHEC
Date: June 30, 2021

General Information:
7 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

Sample: 07960 SCURRY PRE-GAC **Lab ID: 92546590001** Collected: 06/25/21 10:25 Received: 06/25/21 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.012	1	06/29/21 10:24	06/29/21 18:16	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	70-130		1	06/29/21 10:24	06/29/21 18:16	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.21	1		06/28/21 20:07	71-43-2	
1,2-Dichloroethane	**5.2**	ug/L	0.50	0.16	1		06/28/21 20:07	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		06/28/21 20:07	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		06/28/21 20:07	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		06/28/21 20:07	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		06/28/21 20:07	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		06/28/21 20:07	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		06/28/21 20:07	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		06/28/21 20:07	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	77	%	70-130		1		06/28/21 20:07	2199-69-1	
4-Bromofluorobenzene (S)	74	%	70-130		1		06/28/21 20:07	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**75.0J**	ug/L	100	36.4	1		06/28/21 19:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		06/28/21 19:48	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		06/28/21 19:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		06/28/21 19:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		06/28/21 19:48	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		06/28/21 19:48	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		06/28/21 19:48	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		06/28/21 19:48	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/28/21 19:48	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		06/28/21 19:48	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/28/21 19:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

Sample: 07960 SCURRY PRE-GAC DUP **Lab ID: 92546590002** Collected: 06/25/21 10:28 Received: 06/25/21 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.013	1	06/29/21 10:24	06/29/21 18:31	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	92	%	70-130		1	06/29/21 10:24	06/29/21 18:31	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.21	1		06/28/21 20:33	71-43-2	
1,2-Dichloroethane	**3.0**	ug/L	0.50	0.16	1		06/28/21 20:33	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		06/28/21 20:33	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		06/28/21 20:33	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		06/28/21 20:33	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		06/28/21 20:33	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		06/28/21 20:33	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		06/28/21 20:33	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		06/28/21 20:33	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	75	%	70-130		1		06/28/21 20:33	2199-69-1	
4-Bromofluorobenzene (S)	74	%	70-130		1		06/28/21 20:33	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**70.2J**	ug/L	100	36.4	1		06/28/21 20:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		06/28/21 20:06	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		06/28/21 20:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		06/28/21 20:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		06/28/21 20:06	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		06/28/21 20:06	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		06/28/21 20:06	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		06/28/21 20:06	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/28/21 20:06	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		06/28/21 20:06	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/28/21 20:06	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

Sample: 07960 SCURRY POST-GAC **Lab ID: 92546590003** Collected: 06/25/21 10:35 Received: 06/25/21 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.013	1	06/29/21 10:24	06/29/21 18:46	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	91	%	70-130		1	06/29/21 10:24	06/29/21 18:46	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.21	1		06/28/21 18:48	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		06/28/21 18:48	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		06/28/21 18:48	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		06/28/21 18:48	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		06/28/21 18:48	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		06/28/21 18:48	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		06/28/21 18:48	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		06/28/21 18:48	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		06/28/21 18:48	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	82	%	70-130		1		06/28/21 18:48	2199-69-1	
4-Bromofluorobenzene (S)	79	%	70-130		1		06/28/21 18:48	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		06/28/21 18:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		06/28/21 18:35	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		06/28/21 18:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		06/28/21 18:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		06/28/21 18:35	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		06/28/21 18:35	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		06/28/21 18:35	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		06/28/21 18:35	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/28/21 18:35	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		06/28/21 18:35	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		06/28/21 18:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

Sample: 07960 GORDON PRE-GAC **Lab ID: 92546590004** Collected: 06/25/21 11:45 Received: 06/25/21 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.013	1	06/29/21 10:24	06/29/21 19:02	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	92	%	70-130		1	06/29/21 10:24	06/29/21 19:02	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.21	1		06/28/21 19:14	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		06/28/21 19:14	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		06/28/21 19:14	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		06/28/21 19:14	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		06/28/21 19:14	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		06/28/21 19:14	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		06/28/21 19:14	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		06/28/21 19:14	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		06/28/21 19:14	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	80	%	70-130		1		06/28/21 19:14	2199-69-1	
4-Bromofluorobenzene (S)	77	%	70-130		1		06/28/21 19:14	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		06/28/21 18:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		06/28/21 18:53	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		06/28/21 18:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		06/28/21 18:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		06/28/21 18:53	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		06/28/21 18:53	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		06/28/21 18:53	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		06/28/21 18:53	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		06/28/21 18:53	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		06/28/21 18:53	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/28/21 18:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

Sample: 07960 GORDON POST-GAC **Lab ID: 92546590005** Collected: 06/25/21 11:50 Received: 06/25/21 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.013	1	06/29/21 10:24	06/29/21 19:17	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	70-130		1	06/29/21 10:24	06/29/21 19:17	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.21	1		06/28/21 19:41	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		06/28/21 19:41	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		06/28/21 19:41	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		06/28/21 19:41	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		06/28/21 19:41	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		06/28/21 19:41	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		06/28/21 19:41	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		06/28/21 19:41	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		06/28/21 19:41	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	79	%	70-130		1		06/28/21 19:41	2199-69-1	
4-Bromofluorobenzene (S)	76	%	70-130		1		06/28/21 19:41	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		06/28/21 19:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		06/28/21 19:11	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		06/28/21 19:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		06/28/21 19:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		06/28/21 19:11	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		06/28/21 19:11	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		06/28/21 19:11	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		06/28/21 19:11	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		06/28/21 19:11	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		06/28/21 19:11	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/28/21 19:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

Sample: 07960 FIELD BLANK **Lab ID: 92546590006** Collected: 06/25/21 10:40 Received: 06/25/21 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
	Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.013	1	06/29/21 10:24	06/29/21 19:32	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	70-130		1	06/29/21 10:24	06/29/21 19:32	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.21	1		06/28/21 17:56	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		06/28/21 17:56	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		06/28/21 17:56	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		06/28/21 17:56	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		06/28/21 17:56	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		06/28/21 17:56	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		06/28/21 17:56	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		06/28/21 17:56	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		06/28/21 17:56	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	87	%	70-130		1		06/28/21 17:56	2199-69-1	
4-Bromofluorobenzene (S)	82	%	70-130		1		06/28/21 17:56	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		06/28/21 16:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		06/28/21 16:47	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		06/28/21 16:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		06/28/21 16:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		06/28/21 16:47	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		06/28/21 16:47	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		06/28/21 16:47	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		06/28/21 16:47	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/28/21 16:47	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		06/28/21 16:47	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/28/21 16:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

Sample: 07960 TRIP BLANK **Lab ID: 92546590007** Collected: 06/25/21 00:00 Received: 06/25/21 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List	Analytical Method: EPA 524.2								
	Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	0.21	1		06/28/21 18:22	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		06/28/21 18:22	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		06/28/21 18:22	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		06/28/21 18:22	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		06/28/21 18:22	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		06/28/21 18:22	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		06/28/21 18:22	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		06/28/21 18:22	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		06/28/21 18:22	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	81	%	70-130		1		06/28/21 18:22	2199-69-1	
4-Bromofluorobenzene (S)	77	%	70-130		1		06/28/21 18:22	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D								
	Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		06/28/21 15:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		06/28/21 15:53	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		06/28/21 15:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		06/28/21 15:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		06/28/21 15:53	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		06/28/21 15:53	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		06/28/21 15:53	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		06/28/21 15:53	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		06/28/21 15:53	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		06/28/21 15:53	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		06/28/21 15:53	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

QC Batch: 630076 | Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 | Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92546590001, 92546590002, 92546590003, 92546590004, 92546590005, 92546590006, 92546590007

METHOD BLANK: 3310938 Matrix: Water
Associated Lab Samples: 92546590001, 92546590002, 92546590003, 92546590004, 92546590005, 92546590006, 92546590007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.16	06/28/21 14:26	
Benzene	ug/L	ND	0.50	0.21	06/28/21 14:26	
Ethylbenzene	ug/L	ND	0.50	0.22	06/28/21 14:26	
m&p-Xylene	ug/L	ND	1.0	0.39	06/28/21 14:26	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.14	06/28/21 14:26	
Naphthalene	ug/L	ND	0.50	0.35	06/28/21 14:26	
o-Xylene	ug/L	ND	0.50	0.22	06/28/21 14:26	
Toluene	ug/L	ND	0.50	0.20	06/28/21 14:26	
Xylene (Total)	ug/L	ND	0.50	0.22	06/28/21 14:26	
1,2-Dichlorobenzene-d4 (S)	%	102	70-130		06/28/21 14:26	
4-Bromofluorobenzene (S)	%	96	70-130		06/28/21 14:26	

LABORATORY CONTROL SAMPLE: 3310939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.4	102	70-130	
Benzene	ug/L	20	18.6	93	70-130	
Ethylbenzene	ug/L	20	18.9	95	70-130	
m&p-Xylene	ug/L	40	38.5	96	70-130	
Methyl-tert-butyl ether	ug/L	20	18.7	94	70-130	
Naphthalene	ug/L	20	20.5	103	70-130	
o-Xylene	ug/L	20	18.5	93	70-130	
Toluene	ug/L	20	19.1	95	70-130	
Xylene (Total)	ug/L	60	57.0	95		
1,2-Dichlorobenzene-d4 (S)	%			116	70-130	
4-Bromofluorobenzene (S)	%			112	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

QC Batch: 630048 — Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D — Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92546590001, 92546590002, 92546590003, 92546590004, 92546590005, 92546590006, 92546590007

METHOD BLANK: 3310783 — Matrix: Water
Associated Lab Samples: 92546590001, 92546590002, 92546590003, 92546590004, 92546590005, 92546590006, 92546590007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	06/28/21 14:59	
Diisopropyl ether	ug/L	ND	1.0	0.31	06/28/21 14:59	
Ethanol	ug/L	ND	200	72.2	06/28/21 14:59	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	06/28/21 14:59	
tert-Amyl Alcohol	ug/L	ND	100	36.4	06/28/21 14:59	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	06/28/21 14:59	
tert-Butyl Alcohol	ug/L	ND	100	26.8	06/28/21 14:59	
tert-Butyl Formate	ug/L	ND	50.0	29.4	06/28/21 14:59	
1,2-Dichloroethane-d4 (S)	%	99	70-130		06/28/21 14:59	
4-Bromofluorobenzene (S)	%	101	70-130		06/28/21 14:59	
Toluene-d8 (S)	%	101	70-130		06/28/21 14:59	

LABORATORY CONTROL SAMPLE: 3310784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1100	110	70-130	
Diisopropyl ether	ug/L	50	46.9	94	70-130	
Ethanol	ug/L	2000	1890	95	70-130	
Ethyl-tert-butyl ether	ug/L	100	99.4	99	70-130	
tert-Amyl Alcohol	ug/L	1000	1050	105	70-130	
tert-Amylmethyl ether	ug/L	100	100	100	70-130	
tert-Butyl Alcohol	ug/L	500	505	101	70-130	
tert-Butyl Formate	ug/L	400	434	108	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3310785 — 3310786

Parameter	Units	92546588001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	391	384	98	96	39-157	2	30	
Diisopropyl ether	ug/L	ND	20	20	19.9	19.9	100	100	63-144	0	30	
Ethanol	ug/L	ND	800	800	718	706	90	88	39-176	2	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	40.8	41.1	102	103	66-137	1	30	
tert-Amyl Alcohol	ug/L	ND	400	400	384	371	96	93	54-153	4	30	
tert-Amylmethyl ether	ug/L	ND	40	40	41.1	41.2	103	103	69-139	0	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3310785 3310786

Parameter	Units	92546588001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
tert-Butyl Alcohol	ug/L	ND	200	200	250	251	125	125	43-188	0	30	
tert-Butyl Formate	ug/L	ND	160	160	36.7J	ND	23	17	10-170		30	
1,2-Dichloroethane-d4 (S)	%						98	98	70-130			
4-Bromofluorobenzene (S)	%						100	101	70-130			
Toluene-d8 (S)	%						100	100	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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(704)875-9092

QUALITY CONTROL DATA

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

QC Batch: 630270 — Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 — Analysis Description: GCS 504 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92546590001, 92546590002, 92546590003, 92546590004, 92546590005, 92546590006

METHOD BLANK: 3311542 — Matrix: Water
Associated Lab Samples: 92546590001, 92546590002, 92546590003, 92546590004, 92546590005, 92546590006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.013	06/29/21 14:25	
1-Chloro-2-bromopropane (S)	%	96	70-130		06/29/21 14:25	

LABORATORY CONTROL SAMPLE & LCSD: 3311543 3311544

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.24	0.22	98	89	70-130	10	20	
1-Chloro-2-bromopropane (S)	%				103	96	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3311546 3311547

Parameter	Units	92546586002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.23	0.23	93	91	65-135	1	20	
1-Chloro-2-bromopropane (S)	%						96	94	70-130			

SAMPLE DUPLICATE: 3311545

Parameter	Units	92546586001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	0	115			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92546590

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92546590001	**07960 SCURRY PRE-GAC**	EPA 504.1	630270	EPA 504.1	630306
92546590002	**07960 SCURRY PRE-GAC DUP**	EPA 504.1	630270	EPA 504.1	630306
92546590003	**07960 SCURRY POST-GAC**	EPA 504.1	630270	EPA 504.1	630306
92546590004	**07960 GORDON PRE-GAC**	EPA 504.1	630270	EPA 504.1	630306
92546590005	**07960 GORDON POST-GAC**	EPA 504.1	630270	EPA 504.1	630306
92546590006	**07960 FIELD BLANK**	EPA 504.1	630270	EPA 504.1	630306
92546590001	**07960 SCURRY PRE-GAC**	EPA 524.2	630076		
92546590002	**07960 SCURRY PRE-GAC DUP**	EPA 524.2	630076		
92546590003	**07960 SCURRY POST-GAC**	EPA 524.2	630076		
92546590004	**07960 GORDON PRE-GAC**	EPA 524.2	630076		
92546590005	**07960 GORDON POST-GAC**	EPA 524.2	630076		
92546590006	**07960 FIELD BLANK**	EPA 524.2	630076		
92546590007	**07960 TRIP BLANK**	EPA 524.2	630076		
92546590001	**07960 SCURRY PRE-GAC**	EPA 8260D	630048		
92546590002	**07960 SCURRY PRE-GAC DUP**	EPA 8260D	630048		
92546590003	**07960 SCURRY POST-GAC**	EPA 8260D	630048		
92546590004	**07960 GORDON PRE-GAC**	EPA 8260D	630048		
92546590005	**07960 GORDON POST-GAC**	EPA 8260D	630048		
92546590006	**07960 FIELD BLANK**	EPA 8260D	630048		
92546590007	**07960 TRIP BLANK**	EPA 8260D	630048		

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Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: SCDHEC

Project #: WO# : 92546590

92546590

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Date/Initials Person Examining Contents: 6/28/21 HT

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer:
☒ IR Gun ID: 92T064

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 4.7

Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.6

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☒ No	☐ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☒ No	☐ N/A	10.
Trip Blank Present?	☒ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☒ Yes	☐ No	☐ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Only received one tripblank set, COC lists 2 sets

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: ____________ Date/Time: ____________

Project Manager SCURF Review: ____________ **Date:** ____________

Project Manager SRF Review: ____________ **Date:** ____________

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

Project # **WO#: 92546590**

PM: LNW Due Date: 07/02/21

CLIENT: 92-SCDHEC

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6	3											
2																6	3											
3																6	3											
4																6	3											
5																6	3											
6																6	3											
7																2												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: / of

Section A
Required Client Information:

Company:	SCDHEC
Address:	2600 BULL STREET
	COLUMBIA, SC 29201
Email To:	
Phone:	803-898-0589 Fax:
Requested Due Date/TAT:	

Section B
Required Project Information:

Report To:	Robert Dunn
Copy To:	
Purchase Order No.:	
Project Name:	378 Truck Stop
Project Number:	SCDHEC SITE ID# 07960,PACE CA#92802

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	T. Ezell
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Requested Analysis Filtered (Y/N)

Section D
Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Pace Project No./ Lab I.D.: 92546590

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	07960 SCURRY PRE-GAC	WT	G			6-25-21	1025		9				6		3				x	x	x		001
2	07960 SCURRY PRE GAC DUP	WT	G			6-25-21	1028		9				6		3				x	x	x		002
3	07960 SCURRY POST GAC	WT	G			6-25-21	1035		9				6		3				x	x	x		003
4	07960 GORDON PRE GAC	WT	G			6-25-21	1145		9				6		3				x	x	x		004
5	07960 GORDON POST GAC	WT	G			6-25-21	1150		9				6		3				x	x	x		005
6	07960 FIELD BLANK	WT	G			6-25-21	1040		9				6		3				x	x	x		006
7	07960 TRIP BLANK	WT	G						4				4						x	x			007
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Cody Popp / Emerald Tox	6-25-21	1450	Josh Mallas	6/25/21	1445				
	Josh Mallas	6/25/21	1745	HD PACE HN	6/25/21	1745	4.6	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cody Popp

SIGNATURE of SAMPLER: Cody Popp

DATE Signed (MM/DD/YY): 6-25-21

F-ALL-Q-020rev.07, 15-Feb-2007

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Geological Resources, Inc.

UST
Quincy
SEP 07 2021
PROGRAM

UST
184TG
DOCKETING

September 2, 2021

Mr. Sawyer Hipp
SCDHEC
UST Management Division
Bureau of Land & Waste Management
2600 Bull Street
Columbia, SC 29201

Re: Ground Water Monitoring Report
July 2021
378 Truck Stop
731 U.S. Highway 378
Edgefield, Edgefield County, SC
UST Permit # 07960
GRI Project # 4422

Dear Mr. Hipp:

Please find enclosed the referenced report for the above mentioned site. If you have any questions, please do not hesitate to contact Scott Ball at (704) 845-4010.

Sincerely,

Johanna Moats

Johanna Moats
AP/AR Coordinator

cc: Mr. Frank Wilkerson; Wilkerson Fuel Company, file

3502 Hayes Road • Monroe, North Carolina 28110
113 West Firetower Road, Suite G • Winterville, North Carolina 28590
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012
Class 1 UST Site Rehabilitation Contractor #74

Geological Resources, Inc.

Ground Water Monitoring Report
July 2021
378 Truck Stop
731 U.S. Highway 378
Edgefield, South Carolina
Edgefield County
UST Permit Number: 07960
GRI Project Number: 4422

Prepared for:

Mr. Frank Wilkerson
Wilkerson Fuel Company
Post Office Box 2835
Rock Hill, South Carolina 29732

September 2, 2021

JOHN M. BROWN REGISTERED No. 1116 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

W. Scott Ball

John M. Brown, P.G.
License No. 1116

W. Scott Ball
Senior Project Manager

3502 Hayes Road • Monroe, North Carolina 28110
113 West Firetower Road, Suite G • Winterville, North Carolina 28590
Phone (704) 845-4010 • (888) 870-4133 • Fax (704) 845-4012
Class 1 UST Site Rehabilitation Contractor #74

ACRONYMS

ACM: Asbestos Containing Materials

AFVR: Aggressive Fluid-Vapor Recovery

AS: Air Sparging

AST: Aboveground Storage Tank

ASTM: American Society for Testing and Materials

BGS: Below Ground Surface

BLWM: Bureau of Land and Waste Management

CAP: Corrective Action Plan

CFR: Code of Federal Regulations

COC: Chain of Custody

CoC: Chemical of Concern

DPE: Dual Phase Extraction

DRO: Total Petroleum Hydrocarbons Diesel Range Organics

EPA: Environmental Protection Agency

ER: Engineering Report

ESA: Environmental Site Assessment

GC: Gas Chromatograph

GRI: Geological Resources, Inc.

GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

IGWA: Initial Ground Water Assessment

MCL: Maximum Contaminant Level

MDL: Method Detection Limit

MNA: Monitored Natural Attenuation

NAPL: Non-Aqueous Phase Liquid, "Free Product"

NPDES: National Pollutant Discharge Elimination System

OVA: Organic Vapor Analyzer

PAHs: Polynuclear Aromatic Hydrocarbons

QA: Quality Assurance

QAPP: Quality Assurance Project Plan

QC: Quality Control

QMP: Quality Management Plan

RBSL: Risk-Based Screening Level

SCDHEC: South Carolina Department of Health and Environmental Control

SCDOT: South Carolina Department of Transportation

SOP: Standard Operating Procedure

SPCC: Spill Prevention Control and Countermeasures

SSTL: Site Specific Target Level

SSWP: Site Specific Work Plan

SVE: Soil Vapor Extraction

SVOCs: Semi-Volatile Organic Compounds

SWPPP: Stormwater Pollution Prevention Plan

TCLP: Toxicity Characteristic Leaching Procedure (EPA Method SW-846 1311)

TOC: Top of Casing

TPH: Total Petroleum Hydrocarbons

USGS: United States Geological Survey

UST: Underground Storage Tank

UVF: Ultraviolet Fluorescence

VOCs: Volatile Organic Compounds

TABLE OF CONTENTS

FIGURES

TABLES

APPENDICES

1. INTRODUCTION

1.1 Project Background

This report presents the results of comprehensive ground water sampling activities conducted in July 2021 at the former 378 Truck Stop site, located at 731 U.S. Highway 378, Edgefield, Edgefield County, South Carolina (**Figure 1**). The activities were conducted in accordance with the Site Specific Work Plan Approval and Groundwater Sampling Notice to Proceed dated June 16, 2021 from the SCDHEC. The purpose of the activities was to obtain current ground water quality data for the site. The site is currently vacant and contains an abandoned building previously used as a truck stop and petroleum retail facility. Adjacent properties are currently used for residential purposes.

A release from the UST system was reported to the SCDHEC in October 1974 and confirmed in July 1996. Reportedly, one 550-gallon diesel UST, one 1,000-gallon gasoline UST and one 2,000-gallon gasoline UST, as well as associated product piping and dispensers, were removed from the site in January 1997. No USTs are currently in use at the site. Both Tier I and Tier II site assessments have been conducted at the site. To date, a total of 31 Type III monitoring wells (MW-1 through MW-31) and eleven telescoping monitoring wells (TW-1 through TW-11) have been installed at the site and on surrounding properties. A total of 16 water supply wells (WSW-1 through WSW-15 and WSW-X) have been identified within a 500-foot radius of the source area. AFVR and ground water sampling events have been conducted at the site since completion of the Tier II activities in 2010.

The last comprehensive ground water sampling event conducted at the site occurred in June 2019. CoCs above their respective RBSLs have been reported in several monitoring wells at the site. This report summarizes the July 2021 ground water monitoring results.

1.2 Regional Geology/Hydrogeology

The site is in Edgefield County in the Piedmont Physiographic Province of South Carolina. The underlying bedrock is part of the Carolina Terrane. These rocks are predominantly clastic rocks underlain by a sequence of felsic to intermediate ashflow tuffs. The soils in the area are the result of in-place weathering of the underlying bedrock, except along stream valleys where the soils are comprised of alluvial materials and their weathered products. The soils become saprolitic with depth until grading into the underlying fractured rocks.

The soil mantle that covers the underlying fractured bedrock in most places provides an intergranular medium through which recharge and discharge of water from the fractured rocks commonly occurs. The result is a composite two-media system which characterizes ground water flow. The top of the system is the water table surface, which is typically located in the soil or saprolite. The fractured bedrock generally grades downward into un-fractured rock below a depth of approximately 300 feet. Thus, the base of the ground water system is indistinct. The water table is a subdued replica of the surface topography, thus the depth to ground water varies depending largely on topography and to a lesser extent, rainfall.

2. SITE INFORMATION

- **Site Identification**
  - Site Name: 378 Truck Stop
  - Location of Source Area: 731 U.S. Highway 378
Edgefield, SC 29824
Edgefield County
33.937110°N, 81.951158°W (Topographical Map)
  - UST Permit Number: 07960
  - Land Use: Commercial

- **Information about Contacts Associated with the Leaking UST System**

UST/AST Owner
Wilkerson Oil Company
Post Office Box 2835
Rock Hill, SC 29732
(803) 324-4080

UST/AST Operator
Wilkerson Oil Company
Post Office Box 2835
Rock Hill, SC 29732
(803) 324-4080

Property Owner
Old Truck Stop, LLC
102 Faulkner Mountain Road
Edgefield, SC 29824
(803) 637-5422

Site Rehabilitation Contractor
Geological Resources, Inc.
3502 Hayes Road
Monroe, NC 28110
704-845-4010
Class 1, Certification Number 74

Analytical Laboratory
SGS North America, Inc.
4405 Vineland Road, Suite C-15
Orlando, FL 32811
State Certification No. 96038001
(407) 425-6700

- **Information about Release**
  - Release was discovered in October 1974
  - An unknown amount of product was released from a leaking UST system
  - One 2,000 gallon gasoline UST, one 1,000 gallon gasoline UST, and one 550 gallon diesel UST were removed in January 1997.

3. ASSESSMENT INFORMATION

3.1 Site Geology/Hydrogeology

The subsurface materials encountered during assessment activities at the site consisted of clays and fine sands, grading into grey bedrock around 40-45 feet BGS. Twenty-five Type III monitoring wells (MW-2 through MW-12, MW-14, MW-15, MW-17 through MW-23, MW-25, and MW-27 through MW-30) and eight telescoping monitoring wells (TW-1 through TW-5, TW-7, TW-8, and TW-11) were gauged on July 12, 2021. Monitoring wells MW-1, MW-13, MW-16, MW-24, MW-26, MW-31, TW-6, TW-9, and TW-10 could not be located and were not sampled.

The depths to ground water in the Type III monitoring wells during the July 2021 sampling event ranged from 9.25 to 35.32 feet below the TOCs. Ground water elevations in the Type III monitoring wells relative to a temporary benchmark with an assumed datum of 100.00 feet ranged from 75.20 to 88.42 feet. Based on this data, as well as the dissolved contaminant concentrations, ground water flow across the site was to the southwest. The direction of ground water movement for the telescoping wells appears to be toward the west. The horizontal hydraulic gradient across the site was approximately 0.012 feet per foot.

The vertical hydraulic gradients calculated for paired Type III and telescoping wells MW-3/TW-2, MW-9/TW-3, MW-10/TW-4, MW-12/TW-5, MW-17/TW-7, and MW-19/TW-8 were approximately 0.015 feet per foot upward, 0.009 feet per foot upward, 0.001 feet per foot upward, 0.008 feet per foot upward, 0.053 feet per foot upward, and 0.06 feet per foot upward, respectively. A Site Map showing the locations of the monitoring wells and the structures on-site has been included as **Figure 2**. A Potentiometric Surface Map for the Type III monitoring wells and a Potentiometric Surface Map for the telescoping wells for the July 2021 gauging event have been included as **Figure 3** and **Figure 4,** respectively.

A summary of ground water gauging data for the site is presented in **Table 1**. A summary of the July 2021 gauging data is also shown below:

Well No.	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
MW-1	101.98	NM	NM	45	Unknown
MW-2	100.99	14.74	86.25	43	Unknown
MW-3	101.54	14.92	86.62	40	10 – 40
MW-4	100.48	12.92	87.56	40	10 – 40
MW-5	104.18	19.08	85.10	40	20 – 40
MW-6	102.25	16.09	86.16	35	20 – 35
MW-7	99.72	12.13	87.59	35	20 – 35
MW-8	99.92	12.12	87.80	35	20 – 35
MW-9	94.83	14.15	80.68	35	20 – 35
MW-10	99.12	17.53	81.59	40	25 – 40
MW-11	102.61	16.27	86.34	35	20 – 35
MW-12	103.46	16.76	86.70	35	20 – 35
MW-13	101.48	NM	NM	40	25 – 40
MW-14	103.48	19.18	84.30	40	25 – 40
MW-15	103.16	17.27	85.89	40	25 – 40
MW-16	101.32	NM	NM	40	25 – 40
MW-17	98.40	12.07	86.33	35	20 – 35
MW-18	95.05	9.25	85.80	35	20 – 35
MW-19	101.07	16.77	84.30	39	24 – 39
MW-20	110.52	35.32	75.20	45	30 – 45
MW-21	101.70	14.03	87.67	40	25 – 40
MW-22	105.13	20.43	84.70	40	25 – 40
MW-23	100.01	15.02	84.99	37	22 – 37
MW-24	99.08	NM	NM	40	25 – 40
MW-25	101.54	18.23	83.31	40	25 – 40
MW-26	97.25	NM	NM	39	24 – 39
MW-27	97.20	16.03	81.17	35	20 – 35
MW-28	101.29	12.87	88.42	40	25 – 40
MW-29	101.08	13.89	87.19	40	25 – 40
MW-30	104.62	18.43	86.19	45	30 – 45
MW-31	103.20	NM	NM	44	29 – 44
TW-1	101.83	16.08	85.75	63	58 – 63
TW-2	101.97	14.39	87.58	80	75 – 80
TW-3	95.33	14.06	81.27	80	75 – 80
TW-4	99.23	17.57	81.66	69	64 – 69

Well No.	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Constructed Well Depth (ft)	Screened Interval (ft)
TW-5	103.62	16.62	87.00	59	54 – 59
TW-6	101.29	NM	NM	59	54 – 59
TW-7	98.13	9.43	88.70	59	54 – 59
TW-8	101.03	14.33	86.70	59	54 – 59
TW-9	96.92	NM	NM	80	75 – 80
TW-10	NM	NM	NM	65	60 – 65
TW-11	NM	7.98	NM	60	55 – 60

3.2 Ground Water Quality

Twenty-five Type III monitoring wells (MW-2 through MW-12, MW-14, MW-15, MW-17 through MW-23, MW-25, and MW-27 through MW-30), eight telescoping monitoring wells (TW-1 through TW-5, TW-7, TW-8, and TW-11), and thirteen water supply wells (WSW-2, WSW-4 through WSW-12, WSW-14, WSW-15, and WSW-X) were purged and sampled July 12 - 14, 2021. Monitoring wells MW-1, MW-13, MW-16, MW-24, MW-26, MW-31, TW-6, TW-9, and TW-10 could not be located and were not sampled. Water supply wells WSW-1, WSW-3, and WSW-13 were not sampled during this event.

Field readings (pH, specific conductivity, temperature, dissolved oxygen, and turbidity) were collected from the purged wells after each well volume was removed and recorded on field data information sheets. Ground water samples collected from the monitoring wells were analyzed for the following compounds: BTEX, MTBE, naphthalene, 1, 2-DCA and 8 oxygenates by EPA Method 8260D, and EDB by Method 8011. Ground water samples collected from the water supply wells were analyzed for the following compounds: BTEX, MTBE, naphthalene, and 1, 2-DCA by EPA Method 524.2, 8 oxygenates by EPA Method 8260D, and EDB by EPA Method 504.1.

Concentrations of benzene, toluene, ethylbenzene, naphthalene, 1, 2-DCA, and/or EDB that exceeded the RBSLs were reported in the ground water samples collected from MW-2, MW-3, MW-7, MW-12, MW-22, MW-29, MW-30, TW-1, and TW-2. A detectable concentration of 1, 2-DCA below the RBSL was reported in the sample collected from water supply well WSW-12. Concentrations of the oxygenate TAA that exceeded the action level were reported in the ground water samples collected from MW-3, MW-7, MW-12, MW-22, MW-29, MW-30, TW-1, and TW-2. A concentration of the oxygenate TBA that exceeded the action level was reported in the duplicate ground water sample collected from MW-3. Detectable concentrations of the oxygenate TBA that were below the action level were reported in WSW-2, WSW-4, WSW-6 (Duplicate), WSW-7 through WSW-10, WSW-12, WSW-14, WSW-15, and WSW-X.

A summary of the July 2021 ground water sampling data is shown below:

Well No.	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (μg/l)	**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-1	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	**5.9**	<0.30	6.9	5.8	<0.23	3.4 J	**14.5**	<0.0047

Well No.	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
MW-3	**5,940**	58.6 J	667	1,580	<23	**304 J**	**412**	**0.16**
MW-4	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	0.39 J	<0.0048
MW-5	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	0.66 J	<0.0048
MW-6	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-7	**554**	<3.0	184	430	<2.3	**60.0**	**44.1**	**0.12**
MW-8	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0047
MW-9	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0047
MW-10	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-11	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	2.0	<0.0047
MW-12	**76.0**	0.80 J	11.1	1.3 J	<0.23	5.5	**75.5**	<0.0048
MW-13	NS	NS	NS	NS	NS	NS	NS	NS
MW-14	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-15	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-16	NS	NS	NS	NS	NS	NS	NS	NS
MW-17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0049
MW-18	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0049
MW-19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-20	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0047
MW-22	**5,520**	**4,450**	**946**	9,410	<23	**660**	**261**	**1.9**
MW-23	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-24	NS	NS	NS	NS	NS	NS	NS	NS
MW-25	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-26	NS	NS	NS	NS	NS	NS	NS	NS
MW-27	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	0.68 J	<0.0049
MW-28	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-29	2.7	<0.30	<0.36	<0.72	3.0	<1.0	**85.9**	<0.0049
MW-30	**479**	19.7	5.3 J	95.4	<2.3	**34.0 J**	**50.1**	<0.0048
MW-31	NS	NS	NS	NS	NS	NS	NS	NS
TW-1	**6.0**	0.31 J	1.4	2.8 J	6.4	<1.0	**52.2**	<0.0047
TW-2	<0.31	<0.30	<0.36	1.6 J	1.6	<1.0	**17.0**	<0.0048
TW-3	<0.31	0.55 J	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0049
TW-4	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	0.53 J	<0.0048
TW-5	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0047
TW-6	NS	NS	NS	NS	NS	NS	NS	NS
TW-7	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
TW-8	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
TW-9	NS	NS	NS	NS	NS	NS	NS	NS
TW-10	NS	NS	NS	NS	NS	NS	NS	NS
TW-11	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
WSW-1	NS	NS	NS	NS	NS	NS	NS	NS
WSW-2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039
WSW-3	NS	NS	NS	NS	NS	NS	NS	NS
WSW-4	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0040

Well No.	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
WSW-5	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039
WSW-6	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0040
WSW-7	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0040
WSW-8	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039
WSW-9	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039
WSW-10	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039
WSW-11	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0038
WSW-12	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	0.41 J	<0.0039
WSW-13	NS	NS	NS	NS	NS	NS	NS	NS
WSW-14	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.036
WSW-15	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039
WSW-X	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039

A Ground Water Quality Map based on data from the July 2021 sampling event has been included as **Figure 5**. Summaries of ground water analytical results are presented in **Table 2** and **Table 3**. A complete laboratory analytical report has been included as **Appendix A**. Field Data Information Sheets from the July 2021 sampling event are attached as **Appendix B**. A copy of the disposal manifest for purge water generated during the sampling event has been included as **Appendix C**.

4. QA/QC

Monitoring well gauging, purging, and sampling was conducted in general accordance with the SCDHEC Programmatic QAPP and the approved site-specific Contractor Addendum. All wells were purged and sampled with dedicated disposable bailers. All field measurement equipment was properly decontaminated between sampling locations. Duplicate samples from monitoring wells MW-3 (DUP A), MW-22 (DUP B) and water supply well WSW-6 (DUP C), and field blanks for the monitoring wells and water supply wells were collected during the sampling activities. Laboratory provided trip blanks were included in the sample coolers. Laboratory results for each sample and their respective duplicate sample generally showed the same compounds at similar concentrations. Detectable concentrations of TBA which were below the action level were reported in all field blanks and the water supply well trip blank. A detectable concentration of toluene which was below the RBSL was reported in the monitoring well trip blank. All applicable items on the Contractor Checklist were reviewed and verified. A copy of the Contractor Checklist is included as **Appendix D**.

5. CONCLUSIONS AND RECOMMENDATIONS

- Twenty-five Type III monitoring wells and eight telescoping monitoring wells were gauged, purged, and sampled July 12 through July 14, 2021.
- Thirteen water supply wells were sampled on July 12, 2021.
- The depths to ground water in the Type III monitoring wells during the July 2021 sampling event ranged from 9.25 to 35.32 feet below the top of casings. Ground water flow across the site was to the southwest. The direction of ground water movement for the telescoping wells appears to be toward the west. The horizontal hydraulic gradient across the site was approximately 0.012 feet per

foot. The vertical hydraulic gradients calculated for paired Type III and telescoping wells ranged from 0.001 feet per foot upward to 0.06 feet per foot upward.

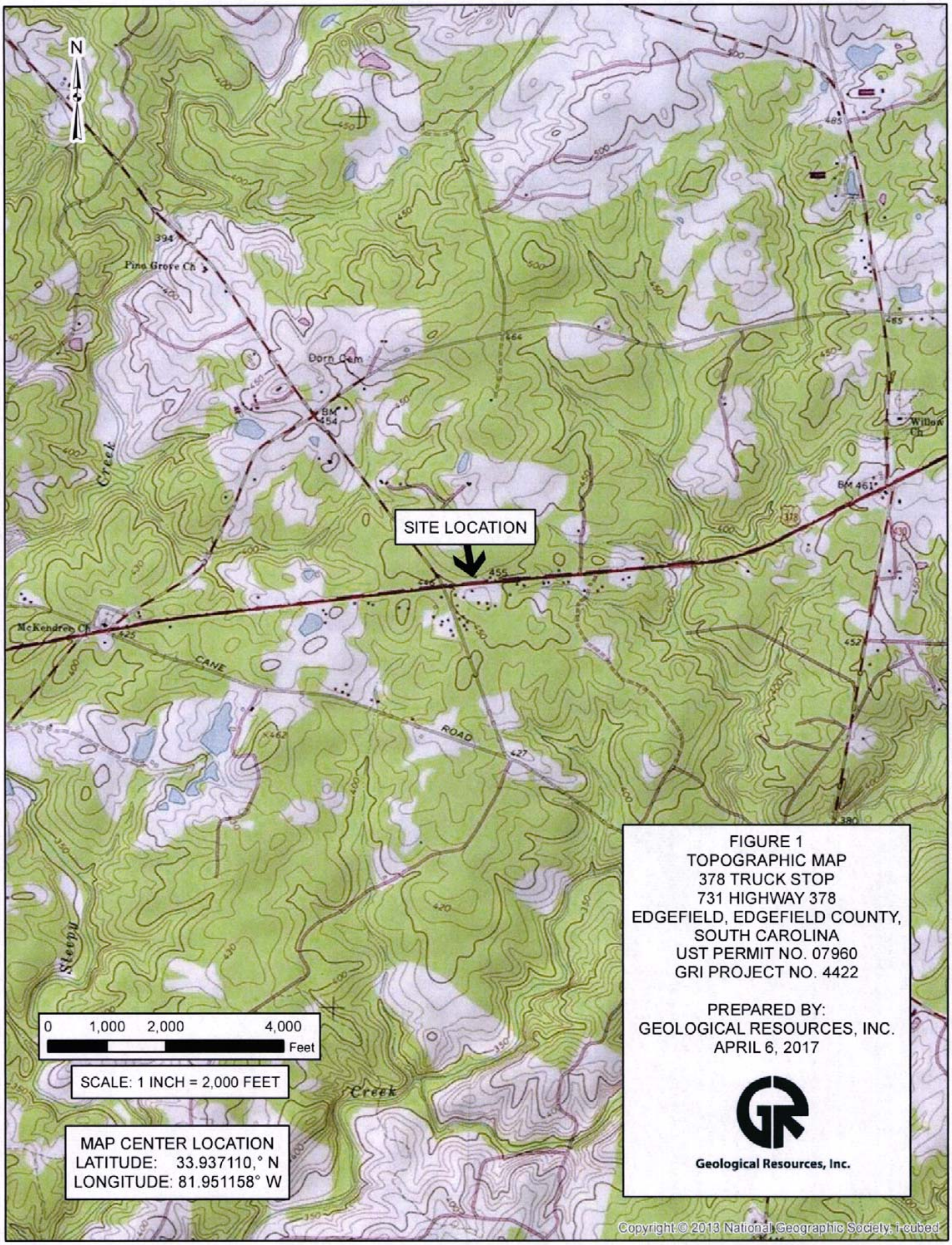
- Concentrations of benzene, toluene, ethylbenzene, naphthalene, 1, 2-DCA, and/or EDB that exceeded the RBSLs were reported in the ground water samples collected from MW-2, MW-3, MW-7, MW-12, MW-22, MW-29, MW-30, TW-1, and TW-2. A detectable concentration of 1, 2-DCA below the RBSL was reported in the sample collected from water supply well WSW-12. Concentrations of the oxygenate TAA that exceeded the action level were reported in the ground water samples collected from MW-3, MW-7, MW-12, MW-22, MW-29, MW-30, TW-1, and TW-2. A concentration of the oxygenate TBA that exceeded the action level was reported in the duplicate ground water sample collected from MW-3. Detectable concentrations of the oxygenate TBA that were below the action level were reported in WSW-2, WSW-4, WSW-6 (Duplicate), WSW-7 through WSW-10, WSW-12, WSW-14, WSW-15, and WSW-X.
- Since COCs exceed RBSLs and action levels in monitoring and water supply wells, GRI makes the following recommendations:
    i) A comprehensive site survey should be conducted to tie all monitoring wells to a common datum.
    ii) A receptor survey update should be conducted.
    iii) AFVR events should be conducted to reduce CoC concentrations.
    iv) Since TBA was reported in all field blanks and the water supply well trip blank, a ground water sampling event should be conducted to verify these results.

6. LIMITATIONS

This report has been prepared for the exclusive use of 378 Truck Stop and the SCDHEC for specific application to the referenced site in Edgefield County, South Carolina. The assessment was conducted based on the scope of work and level of effort specified by the SCDHEC and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted standards of geology and hydrogeology practices in the State of South Carolina, available information, and our professional judgment. No other warranty is expressed or implied.

The data that are presented in this report are indicative of conditions that existed at the precise locations sampled and at the time the samples were collected. In addition, the data obtained from samples would be interpreted as being meaningful with respect to parameters indicated in the laboratory report. No additional information can logically be inferred from these data.

FIGURES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SITE LOCATION
Pine Grove Ch
Dorn Cem
BM 454
McKendree Ch
CANE
ROAD
Creek
Sleepy
Willow Ch
BM 461
0 1,000 2,000 4,000
Feet
SCALE: 1 INCH = 2,000 FEET
MAP CENTER LOCATION
LATITUDE: 33.937110,° N
LONGITUDE: 81.951158° W
FIGURE 1
TOPOGRAPHIC MAP
378 TRUCK STOP
731 HIGHWAY 378
EDGEFIELD, EDGEFIELD COUNTY,
SOUTH CAROLINA
UST PERMIT NO. 07960
GRI PROJECT NO. 4422
PREPARED BY:
GEOLOGICAL RESOURCES, INC.
APRIL 6, 2017
Geological Resources, Inc.
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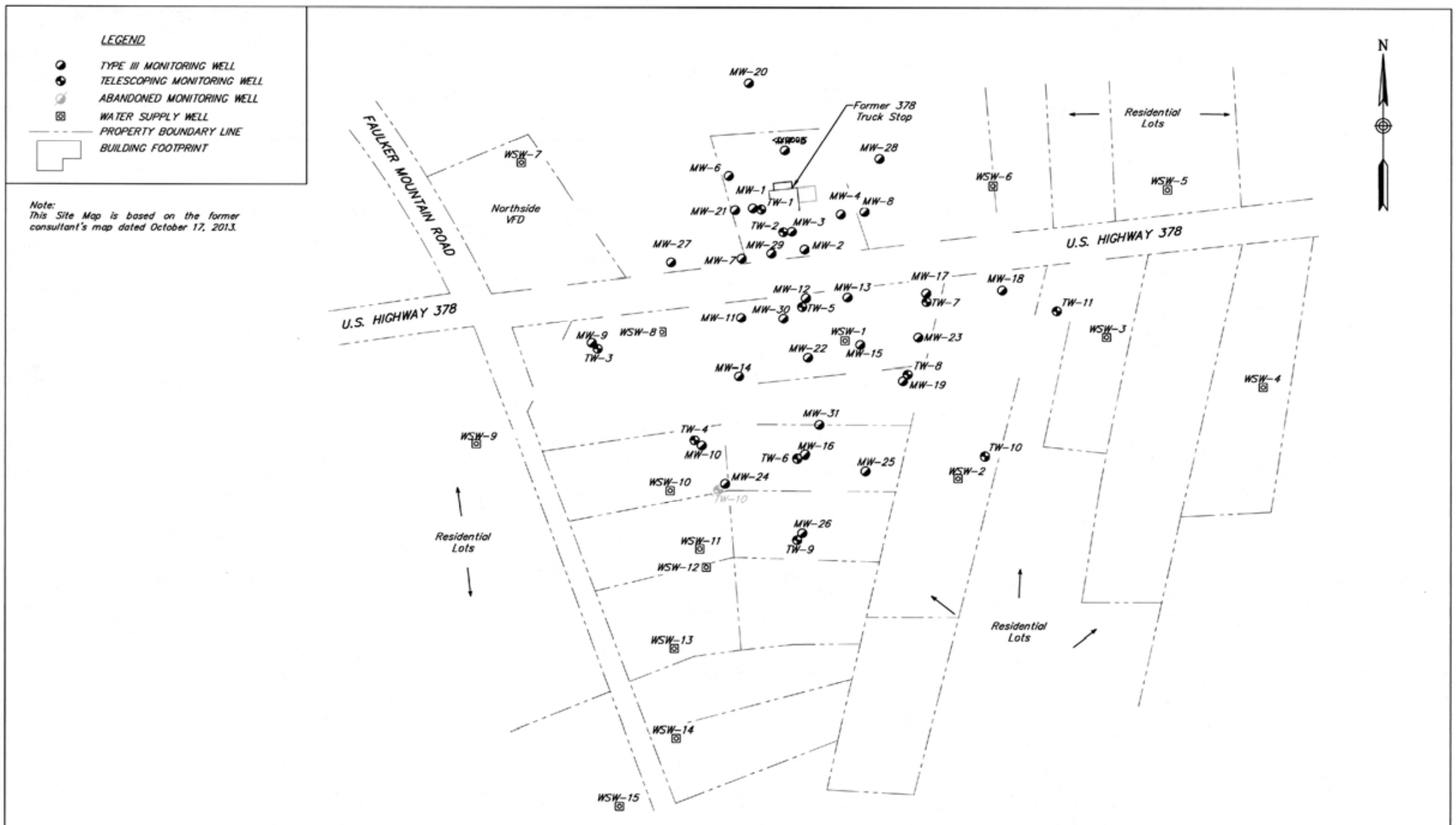


Geological Resources, Inc.

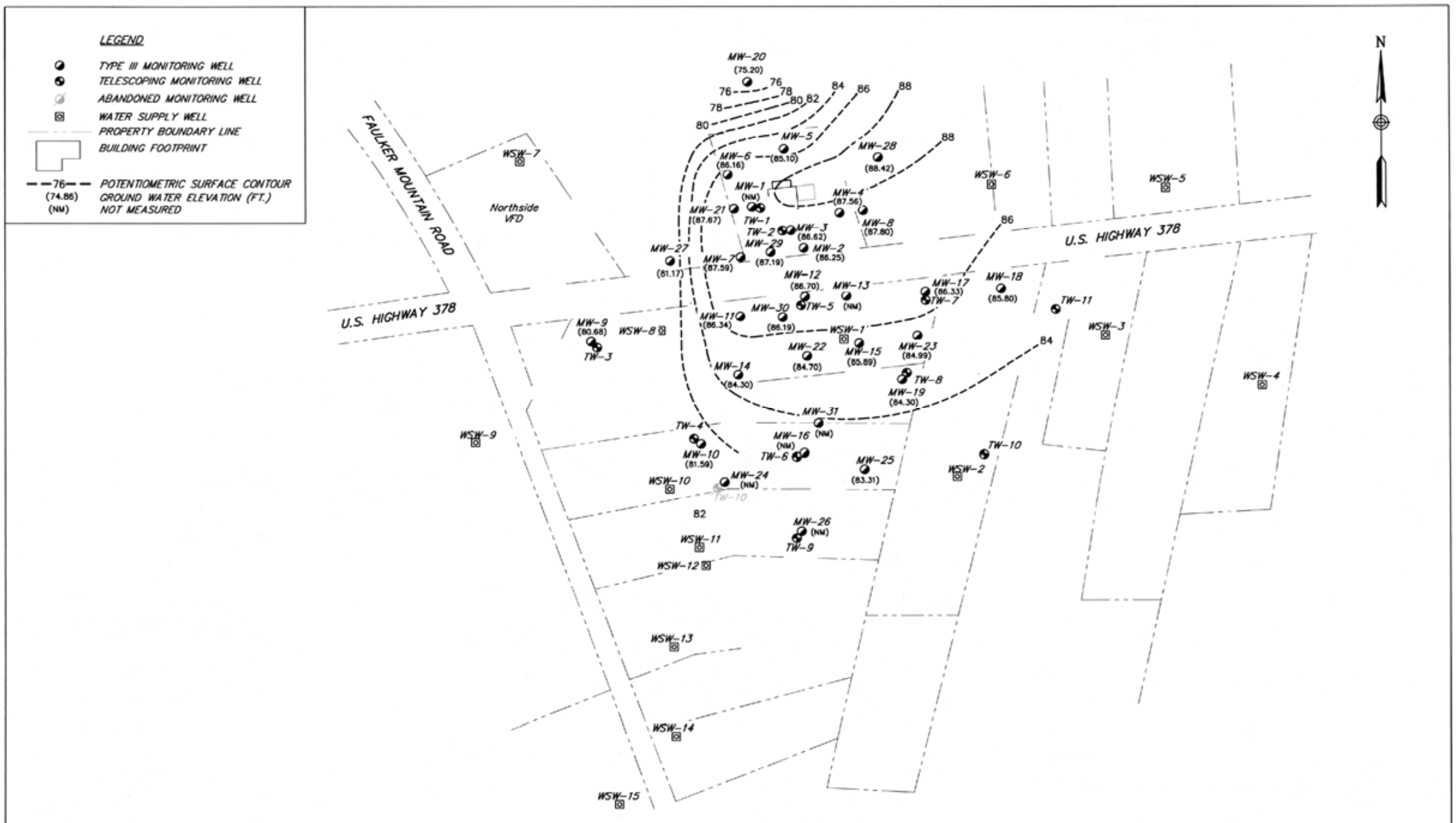
0 75 150 300
(IN FEET)
1 inch = 150 ft

SITE MAP

378 Truck Stop
UST Permit No. 07960
GRI Project No. 4422

731 Highway 378
Edgefield, Edgefield County, SC

Date:	07/22/19	Drawn by:	DTH	Figure:	2



Geological Resources, Inc.

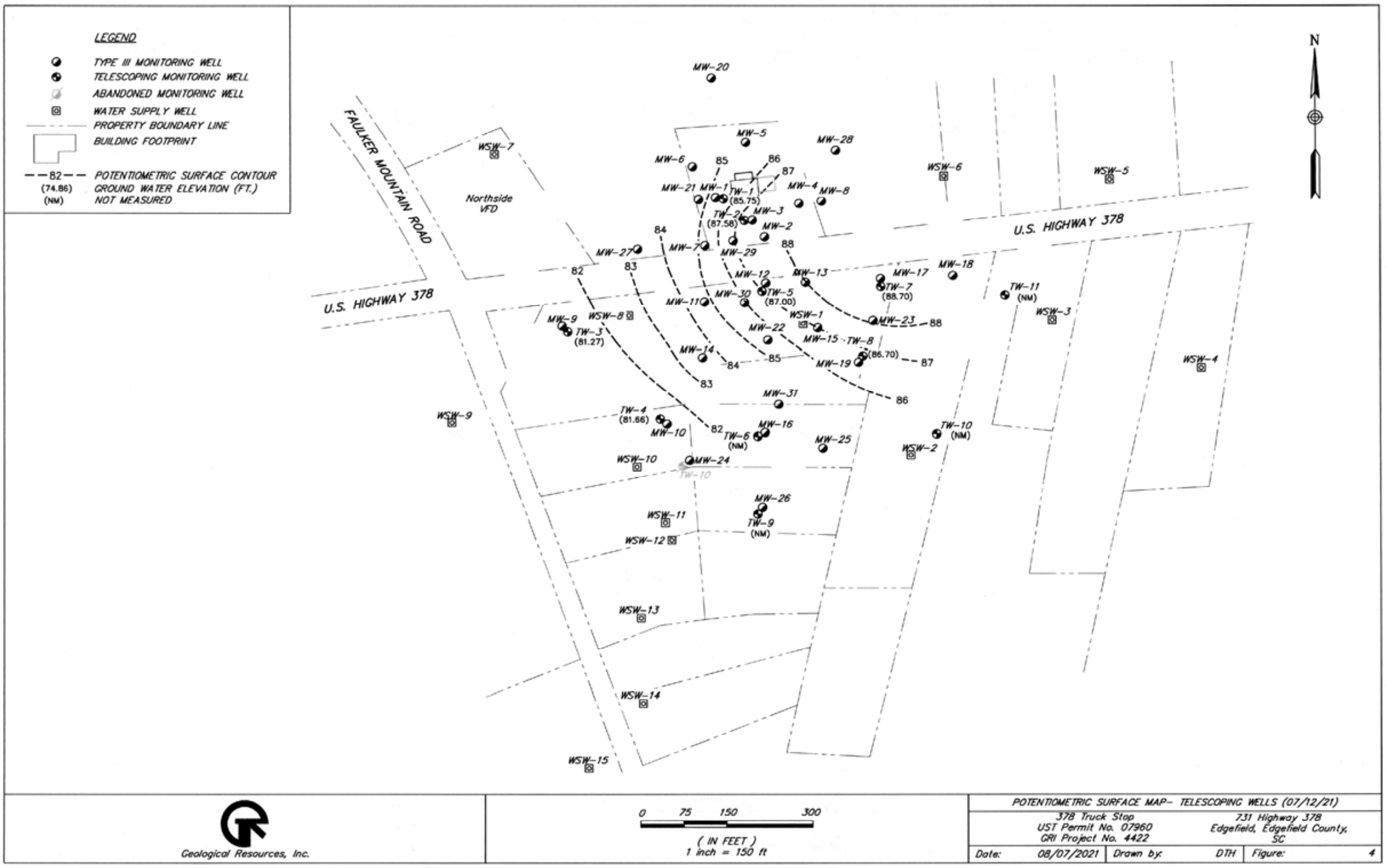
0 75 150 300

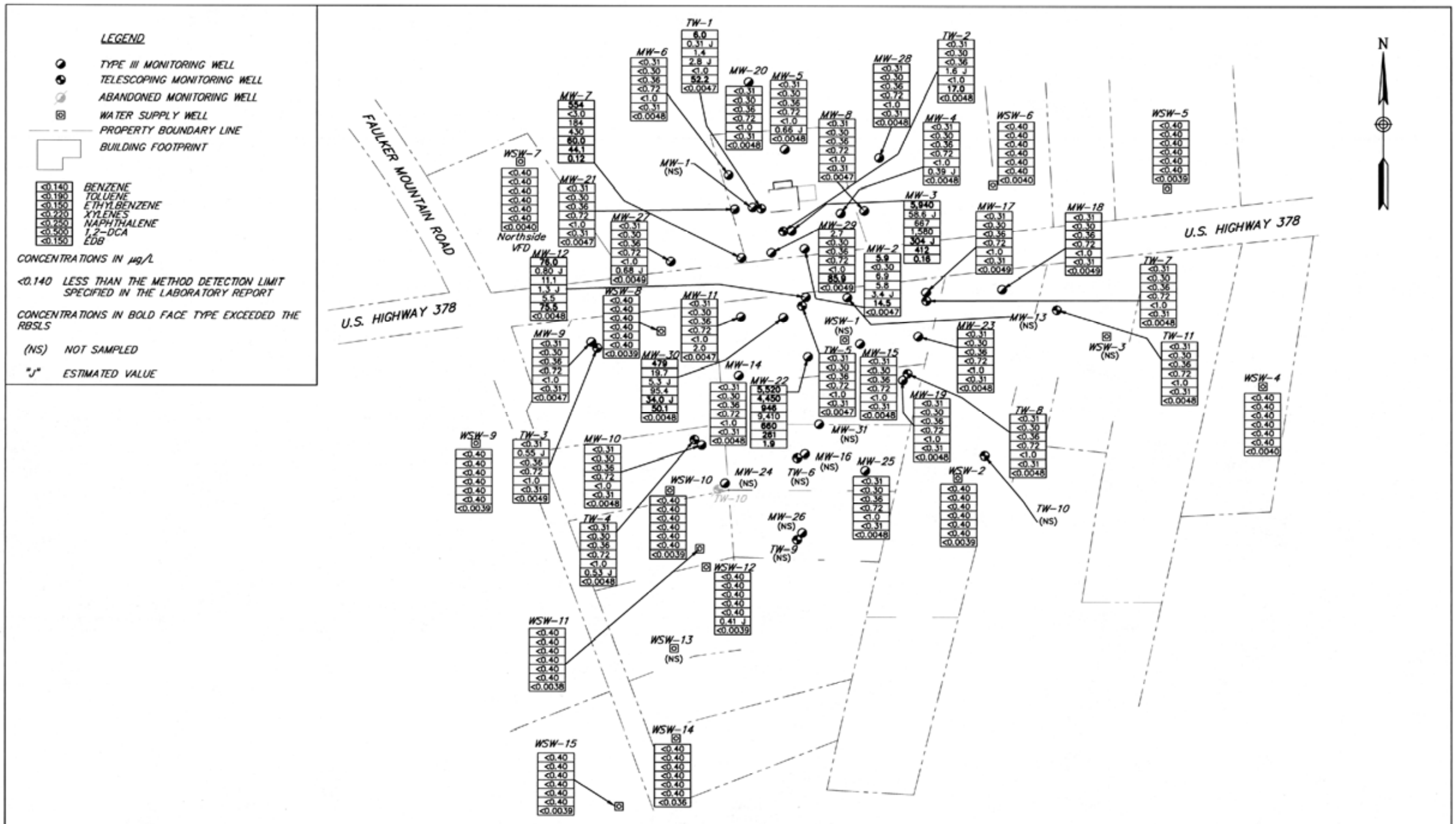
(IN FEET)
1 inch = 150 ft

POTENTIOMETRIC SURFACE MAP– TYPE III MONITORING WELLS (07/12/21)

378 Truck Stop UST Permit No. 07960 GRI Project No. 4422	731 Highway 378 Edgefield, Edgefield County, SC

Date:	09/01/2021	Drawn by:	DTH	Figure:	3


LEGEND
TYPE III MONITORING WELL
TELESCOPING MONITORING WELL
ABANDONED MONITORING WELL
WATER SUPPLY WELL
PROPERTY BOUNDARY LINE
BUILDING FOOTPRINT
82 POTENTIOMETRIC SURFACE CONTOUR
(74.86) GROUND WATER ELEVATION (FT.)
(NM) NOT MEASURED
N
FAULKER MOUNTAIN ROAD
U.S. HIGHWAY 378
U.S. HIGHWAY 378
Northside VFD
MW-20
MW-5
MW-28
MW-6
MW-21
MW-1
TW-1 (85.75)
TW-2 (87.58)
MW-3
MW-4
MW-8
MW-2
MW-27
MW-7
MW-29
MW-12
MW-13
MW-17
MW-18
TW-7 (88.70)
TW-11 (NM)
MW-11
MW-30
TW-5 (87.00)
WSW-1
MW-23
MW-9
TW-3 (81.27)
WSW-8
MW-22
MW-15
TW-8 (86.70)
MW-14
MW-19
MW-31
TW-4 (81.66)
MW-10
TW-6 (NM)
MW-16
MW-25
TW-10 (NM)
WSW-2
WSW-10
MW-24
TW-10
MW-26
TW-9 (NM)
WSW-11
WSW-12
WSW-13
WSW-14
WSW-15
WSW-9
WSW-7
WSW-6
WSW-5
WSW-3
WSW-4
82
83
84
85
86
87
88
Geological Resources, Inc.
0 75 150 300
(IN FEET)
1 inch = 150 ft
POTENTIOMETRIC SURFACE MAP- TELESCOPING WELLS (07/12/21)
378 Truck Stop
UST Permit No. 07960
GRI Project No. 4422
731 Highway 378
Edgefield, Edgefield County, SC
Date: 08/07/2021
Drawn by: DTH
Figure: 4



Geological Resources, Inc.

0 75 150 300
(IN FEET)
1 inch = 150 ft

GROUND WATER QUALITY MAP (JULY 12-14, 2021)

378 Truck Stop UST Permit No. 07960 GRI Project No. 4422	731 Highway 378 Edgefield, Edgefield County, SC

Date:	09/01/2021	Drawn by:	DTH	Figure:	5

TABLES

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	Constructed Well Depth (ft)	Screened Interval (ft)	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Comments
MW-1	08/29/17	45	unknown	101.98	25.01	---	76.97	
	06/12/19				15.08	---	86.90	
	07/12/21				NM	NM	NM	
MW-2	08/29/17	43	unknown	100.99	26.28	---	74.71	
	06/12/19				20.53	---	80.46	
	07/12/21				14.74	---	86.25	
MW-3	08/29/17	40	10-40	101.54	26.73	---	74.81	
	06/12/19				21.32	---	80.22	
	07/12/21				14.92	---	86.62	
MW-4	08/29/17	40	10-40	100.48	25.13	---	75.35	
	06/12/19				19.63	---	80.85	
	07/12/21				12.92	---	87.56	
MW-5	08/29/17	40	20-40	104.18	29.03	---	75.15	
	06/12/19				22.89	---	81.29	
	07/12/21				19.08	---	85.10	
MW-6	08/29/17	35	20-35	102.25	24.46	---	77.79	
	06/12/19				20.10	---	82.15	
	07/12/21				16.09	---	86.16	
MW-7	08/29/17	35	20-35	99.72	21.94	---	77.78	
	06/12/19				20.63	---	79.09	
	07/12/21				12.13	---	87.59	
MW-8	08/29/17	35	20-35	99.92	24.37	---	75.55	
	06/12/19				18.28	---	81.64	
	07/12/21				12.12	---	87.80	
MW-9	08/29/17	35	20-35	94.83	23.85	---	70.98	
	06/12/19				17.02	---	77.81	
	07/12/21				14.15	---	80.68	

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	Constructed Well Depth (ft)	Screened Interval (ft)	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Comments
MW-10	08/29/17	40	25-40	99.12	27.33	---	71.79	
	06/12/19				20.24	---	78.88	
	07/12/21				17.53	---	81.59	
MW-11	08/29/17	35	20-35	102.61	27.68	---	74.93	
	06/12/19				21.65	---	80.96	
	07/12/21				16.27	---	86.34	
MW-12	08/29/17	35	20-35	103.46	28.80	---	74.66	
	06/12/19				24.12	---	79.34	
	07/12/21				16.76	---	86.70	
MW-13	08/29/17	40	25-40	101.48	26.21	---	75.27	
	06/12/19				25.71	---	75.77	
	07/12/21				NM	NM	NM	
MW-14	08/29/17	40	25-40	103.48	30.18	---	73.30	
	06/12/19				NM	---	NM	
	07/12/21				19.18	---	84.30	
MW-15	08/29/17	40	25-40	103.16	29.08	---	74.08	
	06/12/19				NM	---	NM	
	07/12/21				17.27	---	85.89	
MW-16	08/29/17	40	25-40	101.32	28.68	---	72.64	
	06/12/19				NM	---	NM	
	07/12/21				NM	NM	NM	
MW-17	08/29/17	35	20-35	98.40	22.39	---	76.01	
	06/12/19				13.82	---	84.58	
	07/12/21				12.07	---	86.33	
MW-18	08/29/17	35	20-35	95.05	19.54	---	75.51	
	06/12/19				NM	---	NM	
	07/12/21				9.25	---	85.80	

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	Constructed Well Depth (ft)	Screened Interval (ft)	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Comments
MW-19	08/29/17	39	24-39	101.07	26.71	---	74.36	
	06/12/19				20.67	---	80.40	
	07/12/21				16.77	---	84.30	
MW-20	08/29/17	45	30-45	110.52	35.91	---	74.61	
	06/12/19				28.93	---	81.59	
	07/12/21				35.32	---	75.20	
MW-21	08/29/17	40	25-40	101.70	25.27	---	76.43	
	06/12/19				18.49	---	83.21	
	07/12/21				14.03	---	87.67	
MW-22	08/29/17	40	25-40	105.13	31.52	---	73.61	
	06/12/19				27.51	---	77.62	
	07/12/21				20.43	---	84.70	
MW-23	08/29/17	37	22-37	100.01	25.07	---	74.94	
	06/12/19				18.39	---	81.62	
	07/12/21				15.02	---	84.99	
MW-24	08/29/17	40	25-40	99.08	28.49	---	70.59	
	06/12/19				NM	NM	NM	
	07/12/21				NM	NM	NM	
MW-25	08/29/17	40	25-40	101.54	28.26	---	73.28	
	06/12/19				20.93	---	80.61	
	07/12/21				18.23	---	83.31	
MW-26	08/29/17	39	24-39	97.25	25.01	---	72.24	
	06/12/19				NM	NM	NM	
	07/12/21				NM	NM	NM	
MW-27	08/29/17	35	20-35	97.20	24.94	---	72.26	
	06/12/19				18.22	---	78.98	
	07/12/21				16.03	---	81.17	

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	Constructed Well Depth (ft)	Screened Interval (ft)	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Comments
MW-28	08/29/17	40	25-40	101.29	24.81	---	76.48	
	06/12/19				17.42	---	83.87	
	07/12/21				12.87	---	88.42	
MW-29	08/29/17	40	25-40	101.08	26.49	---	74.59	
	06/12/19				20.21	---	80.87	
	07/12/21				13.89	---	87.19	
MW-30	08/29/17	45	30-45	104.62	30.11	---	74.51	
	06/12/19				26.57	---	78.05	
	07/12/21				18.43	---	86.19	
MW-31	08/29/17	44	29-44	103.20	30.40	---	72.80	
	06/12/19				NM	NM	NM	
	07/12/21				NM	NM	NM	
TW-1	08/29/17	63	58-63	101.83	27.34	---	74.49	
	06/12/19				21.31	---	80.52	
	07/12/21				16.08	---	85.75	
TW-2	08/29/17	80	75-80	101.97	26.59	---	75.38	
	06/12/19				19.22	---	82.75	
	07/12/21				14.39	---	87.58	

TABLE 1
SUMMARY OF GROUND WATER ELEVATION DATA
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	Constructed Well Depth (ft)	Screened Interval (ft)	Top of Casing Elevation (ft)	Depth to Ground Water (ft)	Free Product Thickness (ft)	Ground Water Elevation (ft)	Comments
TW-3	08/29/17	80	75-80	95.33	23.63	---	71.70	
	06/12/19				16.53	---	78.80	
	07/12/21				14.06	---	81.27	
TW-4	08/29/17	69	64-69	99.23	25.31	---	73.92	
	06/12/19				18.74	---	80.49	
	07/12/21				17.57	---	81.66	
TW-5	08/29/17	59	54-59	103.62	28.76	---	74.86	
	06/12/19				24.69	---	78.93	
	07/12/21				16.62	---	87.00	
TW-6	08/29/17	59	54-59	101.29	28.93	---	72.36	
	06/12/19				NM	NM	NM	
	07/12/21				NM	NM	NM	
TW-7	08/29/17	59	54-59	98.13	18.42	---	79.71	
	06/12/19				12.83	---	85.30	
	07/12/21				9.43	---	88.70	
TW-8	08/29/17	59	54-59	101.03	26.59	---	74.44	
	06/12/19				17.78	---	83.25	
	07/12/21				14.33	---	86.70	
TW-9	08/29/17	80	75-80	96.92	25.14	---	71.78	
	06/12/19				NM	NM	NM	
	07/12/21				NM	NM	NM	
TW-10	06/12/19	65	60-65	NM	61.58	---	NM	
	07/12/21				NM	NM	NM	
TW-11	06/12/19	60	55-60	NM	12.72	---	NM	
	07/12/21				7.98	---	NM	

Note:

- NM: Not measured
- Ground water elevations relative to a temporary benchmark with an assumed datum of 100.00 feet; data reported in feet.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES
CHEMICALS OF CONCERN
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-1	08/31/17	**1,070**	343	**1,740**	5,890	<4.6	**796**	**74.8**	**1.9**
	06/13/19	**883**	851	**756**	3,680	<4.6	**248**	**57.2**	**3.1**
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	08/31/17	1.7	<0.30	0.81 J	<0.72	<0.23	<1.0	**10.9**	<0.0096
	06/13/19	**11.1**	0.30 J	8.7	22.8	<0.23	5.4	**13.1**	<0.0094
	07/14/21	**5.9**	<0.30	6.9	5.8	<0.23	3.4 J	**14.5**	<0.0047
MW-3	08/30/17	**5,910**	206	**726**	2,750	<23	**398 J**	**503**	**0.18**
	06/13/19	**5,660**	189	**951**	3,540	<23	**395 J**	**389**	**0.65**
	07/14/21	**5,940**	58.6 J	667	1,580	<23	**304 J**	**412**	**0.16**
MW-3 DUP A	08/30/17	**7,510**	292	**1,090**	3,550	<23	**415 J**	**523**	**0.21**
	06/13/19	**5,970**	154	**848**	3,320	<23	**358 J**	**397**	**0.51**
	07/14/21	**5,810**	66.6 J	680	1,590	<23	**303 J**	**402**	**0.17**
MW-4	08/31/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	0.53 J	<0.0097
	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	0.56 J	<0.0093
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	0.39 J	<0.0048
MW-5	08/31/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	1.2	<0.0098
	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	0.83 J	<0.0093
	07/14/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	0.66 J	<0.0048
MW-6	08/31/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0099
	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0093
	07/14/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-7	08/31/17	**555**	6.9 J	97.6	476	<2.3	**79.1**	**48.3**	**0.33**
	06/13/19	**292**	<1.5	98.3	169	<1.1	**37.8**	**31.8**	0.046
	07/14/21	**554**	<3.0	184	430	<2.3	**60.0**	**44.1**	**0.12**
MW-8	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0098
	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0093
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0047

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES
CHEMICALS OF CONCERN
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-9	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0097
	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0093
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0047
MW-10	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0093
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-11	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	1.6	<0.0097
	06/13/19	0.39 J	<0.30	<0.36	<0.72	0.33 J	<1.0	**5.2**	<0.0094
	07/14/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	2.0	<0.0047
MW-12	08/30/17	**1,350**	14.6 J	283	64.7	<4.6	23.0 J	**188**	**0.11**
	06/13/19	**1,480**	95.5	462	1,390	<4.6	**115**	**136**	**0.70**
	07/14/21	**76.0**	0.80 J	11.1	1.3 J	<0.23	5.5	**75.5**	<0.0048
MW-13	08/30/17	**852**	13.9	68.2	147	<2.3	**36.6 J**	**105**	<0.0099
	06/13/19	**1,220**	37.6	119	587	<4.6	**87.4 J**	**87.7**	<0.0093
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
MW-13 DUP B	08/30/17	**872**	15.7 J	72.5	154	<4.6	**33.2 J**	**112**	<0.0095
	06/13/19	**1,390**	40.3	119	606	<4.6	**83.9 J**	**92.5**	<0.0094
MW-14	08/30/17	0.78 J	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0097
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-15	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0097
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-16	08/30/17	4.8	0.48 J	<0.36	2.8 J	<0.23	6.3	<0.31	<0.0094
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES
CHEMICALS OF CONCERN
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-17	08/29/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0094
	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0093
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0049
MW-18	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0097
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0049
MW-19	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0099
	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0094
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-20	08/31/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0097
	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0092
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-21	08/31/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0098
	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
	07/14/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0047
MW-22	08/30/17	**8,500**	**21,500**	**1,620**	**17,200**	<46	**947 J**	**452**	**18.8**
	06/13/19	**3,040**	**9,720**	**1,450**	**12,900**	<46	**1,170**	**106 J**	**4.4**
	07/14/21	**5,520**	**4,450**	**946**	9,410	<23	**660**	**261**	**1.9**
MW-22 DUP	06/13/19	**3,340**	**9,250**	**1,280**	**12,400**	<23	**1,290**	<31	**3.9**
	07/14/21	**6,160**	**5,240**	**1,070**	**11,100**	<23	**599**	**261**	**1.7**
MW-23	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	0.012 J
	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0094
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-24	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES
CHEMICALS OF CONCERN
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
MW-25	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0096
	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0093
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-26	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0096
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
MW-27	08/31/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0096
	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	1.4	<0.0093
	07/14/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	0.68 J	<0.0049
MW-28	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0096
	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0093
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
MW-29	08/31/17	4.8	<0.30	0.48 J	<0.72	2.1	<1.0	**78.9**	<0.0095
	06/13/19	**78.9**	1.2	4.1	13.7	3.9	8.3	**115**	<0.0093
	07/14/21	2.7	<0.30	<0.36	<0.72	3.0	<1.0	**85.9**	<0.0049
MW-30	08/30/17	**263**	5.3	16.2	25.3	<1.1	14.5 J	**57.7**	<0.0095
	06/13/19	**584**	50.8	21.7	358	<2.3	**56.7**	**36.4**	<0.0093
	07/14/21	**479**	19.7	5.3 J	95.4	<2.3	**34.0 J**	**50.1**	<0.0048
MW-31	08/30/17	**120**	9.1	22.7	45.6	<0.46	19.6	**38.3**	<0.0095
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
TW-1	08/30/17	**9.0**	0.51 J	4.3	5.6	6.5	<1.0	**65.7**	<0.0095
	06/12/19	**10**	0.37 J	2.4	3.2	5.5	<1.0	**48.2**	<0.0093
	07/14/21	**6.0**	0.31 J	1.4	2.8 J	6.4	<1.0	**52.2**	<0.0047

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES
CHEMICALS OF CONCERN
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
TW-2	08/30/17	0.92 J	0.46 J	0.52 J	1.9 J	0.40 J	<1.0	**8.4**	<0.0096
	06/12/19	<0.31	<0.30	<0.36	<0.72	0.94 J	<1.0	**12.3**	<0.0093
	07/14/21	<0.31	<0.30	<0.36	1.6 J	1.6	<1.0	**17.0**	<0.0048
TW-3	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0096
	06/12/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0093
	07/13/21	<0.31	0.55 J	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0049
TW-4	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	0.53 J	<0.0095
	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0094
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	0.53 J	<0.0048
TW-5	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0097
	06/13/19	<0.31	0.60 J	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0093
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0047
TW-6	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0096
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
TW-7	08/29/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0096
	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0092
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
TW-8	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0094
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
TW-9	08/30/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0095
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
TW-10	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0085
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES
CHEMICALS OF CONCERN
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
TW-11	06/13/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0093
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0048
Field Blank	08/31/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0096
	06/12/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0093
	07/13/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0049
FB-2	07/14/21	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	<0.0047
Trip Blank	08/31/17	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	NR
	06/12/19	<0.31	<0.30	<0.36	<0.72	<0.23	<1.0	<0.31	NR
	07/13/21	<0.31	18.3	<0.36	<0.72	<0.23	<1.0	<0.31	NR
WSW-1 (Pre)	08/31/17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	4.8	<0.0080
WSW-1 (Pre) DUP C	08/31/17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	4.7	<0.0080
WSW-1 (Post)	08/31/17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	1.4	<0.0080
WSW-1	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
WSW-2	08/31/17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0080
	07/12/21	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039
WSW-3	08/31/17	2.3	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0082
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
WSW-4	08/31/17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0080
	07/12/21	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0040
WSW-5	08/31/17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0080
	07/12/21	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039
WSW-6	08/31/17	NS	NS	NS	NS	NS	NS	NS	NS
	07/12/21	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0040
WSW-6 DUP	07/12/21	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES
CHEMICALS OF CONCERN
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**5**	**0.05**
WSW-7	08/31/17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0080
	07/12/21	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0040
WSW-8 (Pre)	08/31/17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	2.1	<0.0080
WSW-8 (Post)	08/31/17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.43 J	<0.0079
WSW-8	07/12/21	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039
WSW-9	08/31/17	<0.20	<0.20	0.43 J	2.2	<0.20	<0.20	<0.20	<0.0081
	07/12/21	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039
WSW-10	08/31/17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.41 J	<0.0081
	07/12/21	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039
WSW-11	08/31/17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.33 J	<0.0080
	07/12/21	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0038
WSW-12	08/31/17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.64 J	<0.0082
	07/12/21	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	0.41 J	<0.0039
WSW-13	08/31/17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0080
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
WSW-14	08/31/17	<0.20	<0.20	<0.20	<0.20	0.91	<0.20	<0.20	<0.0080
	07/12/21	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.036
WSW-15	08/31/17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0080
	07/12/21	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES
CHEMICALS OF CONCERN
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2-DCA	EDB
RBSL (µg/l)		5	1,000	700	10,000	40	25	5	0.05
WSW-X	08/31/17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0079
	07/12/21	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039
WSW Field Blank	08/31/17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.0080
	07/12/21	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039
WSW Trip Blank	08/31/17	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	NR
	07/12/21	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	NR

Notes:

- Monitoring well samples analyzed for BTEX constituents, MTBE, naphthalene & 1,2-DCA by Method 8260B and EDB by Method 8011; results reported in µg/l.
- Water supply well samples analyzed for BTEX constituents, MTBE, naphthalene & 1,2-DCA by Method 524.2 and EDB by Method 504.1; results reported in µg/l.
- Concentrations in bold face type exceeded the RBSLs.
- RBSL: Risk-Based Screening Levels.
- J: Estimated value
- NS: Not sampled.
- NR: Analysis not requested.

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	IPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-1	08/31/17	<4.8	<200	<1,600	<4.7	**2,750**	<4.9	<110	<100
	06/13/19	<4.8	<200	<1,600	<4.7	**2,950**	<4.9	<110	<100
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	08/31/17	0.45 J	<10	<82	<0.24	86.8	<0.24	429	<5.0
	06/13/19	0.70 J	<10	<82	<0.24	154	<0.24	248	<5.0
	07/14/21	0.75 J	<10	<82	<0.24	148	<0.24	218	<5.0
MW-3	08/30/17	30.0 J	<1,000	<8,200	<24	**11,700**	<24	<530	<500
	06/13/19	<24	<1,000	<8,200	<24	**10,700**	<24	<530	<500
	07/14/21	<24	<1000	<8200	<24	**9,500**	<24	1390 J	<500
MW-3 DUP A	08/30/17	35.6 J	<1,000	<8,200	<24	**10,800**	<24	<530	<500
	06/13/19	<24	<1,000	<8,200	<24	**8,800**	<24	<530	<500
	07/14/21	<24	<1000	<8200	<24	**9,490**	<24	**1440 J**	<500
MW-4	08/31/17	<0.24	<10	<82	<0.24	38.3	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	46.4	<0.24	7.6 J	<5.0
	07/13/21	<0.24	<10	<82	<0.24	29.0	<0.24	5.4 J	<5.0
MW-5	08/31/17	<0.24	<10	<82	<0.24	30.7	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/14/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-6	08/31/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/14/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-7	08/31/17	<2.4	<100	<820	<2.4	**2,230**	<2.4	<53	<50
	06/13/19	<1.2	<50	<410	<1.2	**1,080**	<1.2	<27	<25
	07/14/21	<2.4	<100	<820	<2.4	**1,550**	<2.4	<53	<50
MW-8	08/30/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-9	08/30/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-10	08/30/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-11	08/30/17	<0.24	<10	<82	<0.24	23.0	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	178	<0.24	12.3 J	<5.0
	07/14/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-12	08/30/17	9.6 J	<200	<1,600	<4.7	**3,970**	<4.9	**1,930**	<100
	06/13/19	<4.8	<200	<1,600	<4.7	**4,090**	<4.9	1,330	<100
	07/14/21	3.7	<10	<82	<0.24	**3,390**	<0.24	1,090	<5.0
MW-13	08/30/17	<2.4	<100	<820	<2.4	**3,680**	<2.4	<53	<50
	06/13/19	<4.8	<200	<1,600	<4.7	**3,310**	<4.9	<110	<100
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
MW-13 DUP B	08/30/17	<4.8	<200	<1,600	<4.7	**3,830**	<4.9	<110	<100
	06/13/19	<4.8	<200	<1,600	<4.7	**2,810**	<4.9	<110	<100
MW-14	08/30/17	<0.24	<10	<82	<0.24	35.8	<0.24	<5.3	<5.0
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	IPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
MW-15	08/30/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-16	08/30/17	<0.24	<10	<82	<0.24	37.4	<0.24	<5.3	<5.0
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
MW-17	08/29/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-18	08/30/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-19	08/30/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-20	08/31/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-21	08/31/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/14/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-22	08/30/17	<48	<2,000	<16,000	<47	**6,370**	<49	<1,100	<1,000
	06/13/19	<48	<2,000	<16,000	<47	**2,490 J**	<49	<1,100	<1,000
	07/14/21	<24	<1000	<8200	<24	**5,470**	<24	<530	<500
MW-22 DUP	06/13/19	<24	<1,000	<8,200	<24	<530	<24	<530	<500
	07/14/21	<24	<1000	<8200	<24	**6,600**	<24	<530	<500
MW-23	08/30/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-24	08/30/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
MW-25	08/30/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-26	08/30/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
MW-27	08/31/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/14/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
MW-28	08/30/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	IPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		150	NE	10,000	47	240	128	1,400	NE
MW-29	08/31/17	2.5 J	<10	<82	<0.24	**4,700**	<0.24	388	<5.0
	06/13/19	4.4	<10	<82	<0.24	**8,140**	<0.24	596	<5.0
	07/14/21	3.2	<10	<82	<0.24	**5,640**	<0.24	478	<5.0
MW-30	08/30/17	4.0 J	<50	<410	<1.2	**2,480**	<1.2	694	<25
	06/13/19	<2.4	<100	<820	<2.4	**2,130**	<2.4	<53	<50
	07/14/21	3.6 J	<100	<820	<2.4	**2,730**	<2.4	575	<50
MW-31	08/30/17	1.6 J	<20	<160	<0.47	**602**	<0.49	50.4	<10
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
TW-1	08/30/17	1.5 J	<10	<82	<0.24	**1,080**	<0.24	67.8	<5.0
	06/12/19	1.5	<10	<82	<0.24	**1,180 E**	<0.24	77.6	<5.0
	07/14/21	1.5	<10	<82	<0.24	**956**	<0.24	65.8	<5.0
TW-2	08/30/17	0.58 J	<10	<82	<0.24	**321**	<0.24	19.8 J	<5.0
	06/12/19	1.1	<10	<82	<0.24	**735**	<0.24	41.5	<5.0
	07/14/21	1.1	<10	<82	<0.24	**936**	<0.24	43.4	<5.0
TW-3	08/30/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/12/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
TW-4	08/30/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
TW-5	08/30/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	15.5 J	<5.0
TW-6	08/30/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
TW-7	08/29/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
TW-8	08/30/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
TW-9	08/30/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/13/19	NS	NS	NS	NS	NS	NS	NS	NS
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
TW-10	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
TW-11	06/13/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
Field Blank	08/31/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/12/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	32.4	<5.0
FB-2	07/14/21	<0.24	<10	<82	<0.24	<5.3	<0.24	25.3	<5.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	IPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
Trip Blank	08/31/17	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	06/12/19	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
	07/13/21	<0.24	<10	<82	<0.24	<5.3	<0.24	<5.3	<5.0
WSW-1 (Pre)	08/31/17	<0.40	<8.0	<40	<0.40	160	<0.42	37	<2.0
WSW-1 (Pre) DUP C	08/31/17	<0.40	<8.0	<40	<0.40	160	<0.42	38	<2.0
WSW-1 (Post)	08/31/17	<0.40	<8.0	<40	<0.40	110	<0.42	41	<2.0
WSW-1	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
WSW-2	08/31/17	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
	07/12/21	<0.40	<8.0	<52	<0.40	<8.0	<0.42	0.49 J	<2.0
WSW-3	08/31/17	<0.40	<8.0	<40	<0.40	<8.0	<0.42	39	<2.0
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
WSW-4	08/31/17	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
	07/12/21	<0.40	<8.0	<52	<0.40	<8.0	<0.42	2.3 J	<2.0
WSW-5	08/31/17	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
	07/12/21	<0.40	<8.0	<52	<0.40	<8.0	<0.42	<0.40	<2.0
WSW-6	08/31/17	NS	NS	NS	NS	NS	NS	NS	NS
	07/12/21	<0.40	<8.0	<52	<0.40	<8.0	<0.42	<0.40	<2.0
WSW-6 DUP	07/12/21	<0.40	<8.0	<52	<0.40	<8.0	<0.42	0.88 J	<2.0
WSW-7	08/31/17	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
	07/12/21	<0.40	<8.0	<52	<0.40	<8.0	<0.42	3.5 J	<2.0
WSW-8 (Pre)	08/31/17	<0.40	<8.0	<40	<0.40	38	<0.42	<8.0	<2.0
WSW-8 (Post)	08/31/17	<0.40	<8.0	<40	<0.40	8.5 J	<0.42	<8.0	<2.0
WSW-8	07/12/21	<0.40	<8.0	<52	<0.40	<8.0	<0.42	1.9 J	<2.0
WSW-9	08/31/17	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
	07/12/21	<0.40	<8.0	<52	<0.40	<8.0	<0.42	2.5 J	<2.0
WSW-10	08/31/17	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
	07/12/21	<0.40	<8.0	<52	<0.40	<8.0	<0.42	2.1 J	<2.0

TABLE 3
SUMMARY OF LABORATORY ANALYTICAL RESULTS
GROUND WATER SAMPLES - OXYGENATES
378 TRUCK STOP
UST PERMIT # 07960

Date: 07/03/19

Well No.	Date	IPE	ETBA	Ethanol	ETBE	TAA	TAME	TBA	TBF
Action Levels (µg/l)		**150**	**NE**	**10,000**	**47**	**240**	**128**	**1,400**	**NE**
WSW-11	08/31/17	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
	07/12/21	<0.40	<8.0	<52	<0.40	<8.0	<0.42	<0.40	<2.0
WSW-12	08/31/17	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
	07/12/21	<0.40	<8.0	<52	<0.40	<8.0	<0.42	0.69 J	<2.0
WSW-13	08/31/17	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
	07/12/21	NS	NS	NS	NS	NS	NS	NS	NS
WSW-14	08/31/17	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
	07/12/21	<0.40	<8.0	<52	<0.40	<8.0	<0.42	2.6 J	<2.0
WSW-15	08/31/17	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
	07/12/21	<0.40	<8.0	<52	<0.40	<8.0	<0.42	0.47 J	<2.0
WSW-X	08/31/17	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
	07/12/21	<0.40	<8.0	<52	<0.40	<8.0	<0.42	1.1 J	<2.0
WSW Field Blank	08/31/17	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
	07/12/21	<0.40	<8.0	<52	<0.40	<8.0	<0.42	7.0 J	<2.0
WSW Trip Blank	08/31/17	<0.40	<8.0	<40	<0.40	<8.0	<0.42	<8.0	<2.0
	07/12/21	<0.40	<8.0	<52	<0.40	<8.0	<0.42	1.4 J	<2.0

Notes:

- Analyses for selected oxygenates by EPA Method 8260B; results reported in µg/l.
- <: Less than the method detection limit specified in the laboratory report.
- J: Estimated concentrations less than the Reporting Limit but greater than or equal to the Method Detection Limit.
- NS: Not sampled.
- NE: Not established.

APPENDICES

APPENDIX A

Laboratory Analytical Report – Ground Water Samples

SGS

Orlando, FL

08/04/21

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

GRI (Geological Resources Inc.)

378 Truck Stop; 731 Hwy 378, Edgefield, SC

07960/4422

SGS Job Number: FA87225

Sampling Dates: 07/12/21 - 07/14/21

Report to:

GRI
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Monroe, NC 28110
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ATTN: Scott Ball

Total number of pages in report: 170

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AL, AK, AR, CT, IA, KY, MA, MI, MS, ND, NH, NV, OK, OR, UT, VT, WA, WV

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Sections: 1 2 3 4 5 6

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SGS North America Inc.

Sample Summary

GRI (Geological Resources Inc.)

Job No: FA87225

378 Truck Stop; 731 Hwy 378, Edgefield, SC
Project No: 07960/4422

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

FA87225-1	07/14/21	12:32 KPJB	07/15/21	AQ	Ground Water	07960-MW-2
FA87225-2	07/14/21	13:49 KPJB	07/15/21	AQ	Ground Water	07960-MW-3
FA87225-3	07/13/21	18:36 KPJB	07/15/21	AQ	Ground Water	07960-MW-4
FA87225-4	07/14/21	08:21 KPJB	07/15/21	AQ	Ground Water	07960-MW-5
FA87225-5	07/14/21	08:39 KPJB	07/15/21	AQ	Ground Water	07960-MW-6
FA87225-6	07/14/21	12:56 KPJB	07/15/21	AQ	Ground Water	07960-MW-7
FA87225-7	07/13/21	18:12 KPJB	07/15/21	AQ	Ground Water	07960-MW-8
FA87225-8	07/13/21	17:17 KPJB	07/15/21	AQ	Ground Water	07960-MW-9
FA87225-9	07/13/21	16:15 KPJB	07/15/21	AQ	Ground Water	07960-MW-10
FA87225-10	07/14/21	10:41 KPJB	07/15/21	AQ	Ground Water	07960-MW-11
FA87225-11	07/14/21	10:29 KPJB	07/15/21	AQ	Ground Water	07960-MW-12
FA87225-12	07/13/21	15:18 KPJB	07/15/21	AQ	Ground Water	07960-MW-14

SGS North America Inc.

Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA87225

378 Truck Stop; 731 Hwy 378, Edgefield, SC
Project No: 07960/4422

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA87225-13	07/13/21	14:57	KPJB	07/15/21	AQ	Ground Water	07960-MW-15
FA87225-14	07/13/21	13:09	KPJB	07/15/21	AQ	Ground Water	07960-MW-17
FA87225-15	07/13/21	10:42	KPJB	07/15/21	AQ	Ground Water	07960-MW-18
FA87225-16	07/13/21	11:54	KPJB	07/15/21	AQ	Ground Water	07960-MW-19
FA87225-17	07/13/21	17:27	KPJB	07/15/21	AQ	Ground Water	07960-MW-20
FA87225-18	07/14/21	09:03	KPJB	07/15/21	AQ	Ground Water	07960-MW-21
FA87225-19	07/14/21	09:46	KPJB	07/15/21	AQ	Ground Water	07960-MW-22
FA87225-20	07/13/21	12:15	KPJB	07/15/21	AQ	Ground Water	07960-MW-23
FA87225-21	07/13/21	11:03	KPJB	07/15/21	AQ	Ground Water	07960-MW-25
FA87225-22	07/14/21	09:22	KPJB	07/15/21	AQ	Ground Water	07960-MW-27
FA87225-23	07/13/21	17:51	KPJB	07/15/21	AQ	Ground Water	07960-MW-28
FA87225-24	07/14/21	13:21	KPJB	07/15/21	AQ	Ground Water	07960-MW-29
FA87225-25	07/14/21	10:13	KPJB	07/15/21	AQ	Ground Water	07960-MW-30

Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA87225

378 Truck Stop; 731 Hwy 378, Edgefield, SC
Project No: 07960/4422

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA87225-26	07/14/21	12:08 KPJB	07/15/21	AQ	Ground Water	07960-TW-1
FA87225-27	07/14/21	11:36 KPJB	07/15/21	AQ	Ground Water	07960-TW-2
FA87225-28	07/13/21	16:56 KPJB	07/15/21	AQ	Ground Water	07960-TW-3
FA87225-29	07/13/21	15:54 KPJB	07/15/21	AQ	Ground Water	07960-TW-4
FA87225-30	07/13/21	14:36 KPJB	07/15/21	AQ	Ground Water	07960-TW-5
FA87225-31	07/13/21	12:48 KPJB	07/15/21	AQ	Ground Water	07960-TW-7
FA87225-32	07/13/21	11:33 KPJB	07/15/21	AQ	Ground Water	07960-TW-8
FA87225-33	07/13/21	10:18 KPJB	07/15/21	AQ	Ground Water	07960-TW-11
FA87225-34	07/14/21	12:00 KPJB	07/15/21	AQ	Ground Water	07960-DUP-A
FA87225-35	07/14/21	12:01 KPJB	07/15/21	AQ	Ground Water	07960-DUP-B
FA87225-36	07/13/21	13:00 KPJB	07/15/21	AQ	Field Blank Water	07960-FB-1
FA87225-37	07/14/21	13:01 KPJB	07/15/21	AQ	Field Blank Water	07960-FB-2
FA87225-38	07/13/21	07:45 KPJB	07/15/21	AQ	Trip Blank Water	07960-TB

Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA87225

378 Truck Stop; 731 Hwy 378, Edgefield, SC
Project No: 07960/4422

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA87225-39	07/12/21	16:46 KPJB	07/15/21	DW	Drinking Water	07960-WSW-2
FA87225-40	07/12/21	16:25 KPJB	07/15/21	DW	Drinking Water	07960-WSW-4
FA87225-41	07/12/21	16:04 KPJB	07/15/21	DW	Drinking Water	07960-WSW-5
FA87225-42	07/12/21	15:43 KPJB	07/15/21	DW	Drinking Water	07960-WSW-6
FA87225-43	07/12/21	18:47 KPJB	07/15/21	DW	Drinking Water	07960-WSW-7
FA87225-44	07/12/21	18:32 KPJB	07/15/21	DW	Drinking Water	07960-WSW-8
FA87225-45	07/12/21	18:17 KPJB	07/15/21	DW	Drinking Water	07960-WSW-9
FA87225-46	07/12/21	18:02 KPJB	07/15/21	DW	Drinking Water	07960-WSW-10
FA87225-47	07/12/21	17:51 KPJB	07/15/21	DW	Drinking Water	07960-WSW-11
FA87225-48	07/12/21	17:40 KPJB	07/15/21	DW	Drinking Water	07960-WSW-12
FA87225-49	07/12/21	17:18 KPJB	07/15/21	DW	Drinking Water	07960-WSW-14
FA87225-50	07/12/21	17:07 KPJB	07/15/21	DW	Drinking Water	07960-WSW-15
FA87225-51	07/12/21	15:22 KPJB	07/15/21	DW	Drinking Water	07960-WSW-X

Sample Summary
(continued)

GRI (Geological Resources Inc.)

Job No: FA87225

378 Truck Stop; 731 Hwy 378, Edgefield, SC
Project No: 07960/4422

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA87225-52	07/12/21	15:30 KPJB	07/15/21	DW	Drinking Water	07960-DUP-C
FA87225-53	07/12/21	15:00 KPJB	07/15/21	DW	Drinking Water FB	07960-WSW-FB
FA87225-54	07/12/21	09:00 KPJB	07/15/21	DW	Drinking Water TB	07960-WSW-TB

Summary of Hits

Job Number: FA87225
Account: GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC
Collected: 07/12/21 thru 07/14/21

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA87225-1	07960-MW-2					
Benzene		5.9	1.0	0.31	ug/l	SW846 8260D
Ethylbenzene		6.9	1.0	0.36	ug/l	SW846 8260D
Xylene (total)		5.8	3.0	0.72	ug/l	SW846 8260D
Naphthalene		3.4 J	5.0	1.0	ug/l	SW846 8260D
1,2-Dichloroethane		14.5	1.0	0.31	ug/l	SW846 8260D
Di-Isopropyl Ether		0.75 J	1.0	0.24	ug/l	SW846 8260D
Tert-Amyl Alcohol		148	20	5.3	ug/l	SW846 8260D
Tert-Butyl Alcohol		218	20	5.3	ug/l	SW846 8260D
FA87225-2	07960-MW-3					
Benzene		5940	100	31	ug/l	SW846 8260D
Toluene		58.6 J	100	30	ug/l	SW846 8260D
Ethylbenzene		667	100	36	ug/l	SW846 8260D
Xylene (total)		1580	300	72	ug/l	SW846 8260D
Naphthalene		304 J	500	100	ug/l	SW846 8260D
1,2-Dichloroethane		412	100	31	ug/l	SW846 8260D
Tert-Amyl Alcohol		9500	2000	530	ug/l	SW846 8260D
Tert-Butyl Alcohol		1390 J	2000	530	ug/l	SW846 8260D
FA87225-3	07960-MW-4					
1,2-Dichloroethane		0.39 J	1.0	0.31	ug/l	SW846 8260B
Tert-Amyl Alcohol		29.0	20	5.3	ug/l	SW846 8260B
Tert-Butyl Alcohol		5.4 J	20	5.3	ug/l	SW846 8260B
FA87225-4	07960-MW-5					
1,2-Dichloroethane		0.66 J	1.0	0.31	ug/l	SW846 8260D
FA87225-5	07960-MW-6					
No hits reported in this sample.						
FA87225-6	07960-MW-7					
Benzene		554	10	3.1	ug/l	SW846 8260D
Ethylbenzene		184	10	3.6	ug/l	SW846 8260D
Xylene (total)		430	30	7.2	ug/l	SW846 8260D
Naphthalene		60.0	50	10	ug/l	SW846 8260D
1,2-Dichloroethane		44.1	10	3.1	ug/l	SW846 8260D
Tert-Amyl Alcohol		1550	200	53	ug/l	SW846 8260D

Summary of Hits

Job Number: FA87225
Account: GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC
Collected: 07/12/21 thru 07/14/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA87225-7	07960-MW-8					
No hits reported in this sample.						
FA87225-8	07960-MW-9					
No hits reported in this sample.						
FA87225-9	07960-MW-10					
No hits reported in this sample.						
FA87225-10	07960-MW-11					
1,2-Dichloroethane		2.0	1.0	0.31	ug/l	SW846 8260D
FA87225-11	07960-MW-12					
Benzene		76.0	5.0	1.6	ug/l	SW846 8260D
Toluene		0.80 J	1.0	0.30	ug/l	SW846 8260D
Ethylbenzene		11.1	1.0	0.36	ug/l	SW846 8260D
Xylene (total)		1.3 J	3.0	0.72	ug/l	SW846 8260D
Naphthalene		5.5	5.0	1.0	ug/l	SW846 8260D
1,2-Dichloroethane		75.5	1.0	0.31	ug/l	SW846 8260D
Di-Isopropyl Ether		3.7	1.0	0.24	ug/l	SW846 8260D
Tert-Amyl Alcohol		3390	100	26	ug/l	SW846 8260D
Tert-Butyl Alcohol		1090	100	27	ug/l	SW846 8260D
FA87225-12	07960-MW-14					
No hits reported in this sample.						
FA87225-13	07960-MW-15					
No hits reported in this sample.						
FA87225-14	07960-MW-17					
No hits reported in this sample.						
FA87225-15	07960-MW-18					
No hits reported in this sample.						

Summary of Hits

2

Job Number: FA87225
Account: GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC
Collected: 07/12/21 thru 07/14/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA87225-16	07960-MW-19					
No hits reported in this sample.						
FA87225-17	07960-MW-20					
No hits reported in this sample.						
FA87225-18	07960-MW-21					
No hits reported in this sample.						
FA87225-19	07960-MW-22					
Benzene		5520	100	31	ug/l	SW846 8260D
Toluene		4450	100	30	ug/l	SW846 8260D
Ethylbenzene		946	100	36	ug/l	SW846 8260D
Xylene (total)		9410	300	72	ug/l	SW846 8260D
Naphthalene		660	500	100	ug/l	SW846 8260D
1,2-Dichloroethane		261	100	31	ug/l	SW846 8260D
Tert-Amyl Alcohol		5470	2000	530	ug/l	SW846 8260D
FA87225-20	07960-MW-23					
No hits reported in this sample.						
FA87225-21	07960-MW-25					
No hits reported in this sample.						
FA87225-22	07960-MW-27					
1,2-Dichloroethane		0.68 J	1.0	0.31	ug/l	SW846 8260D
FA87225-23	07960-MW-28					
No hits reported in this sample.						
FA87225-24	07960-MW-29					
Benzene		2.7	1.0	0.31	ug/l	SW846 8260D
Methyl Tert Butyl Ether		3.0	1.0	0.23	ug/l	SW846 8260D
1,2-Dichloroethane		85.9	1.0	0.31	ug/l	SW846 8260D
Di-Isopropyl Ether		3.2	1.0	0.24	ug/l	SW846 8260D
Tert-Amyl Alcohol		5640	400	110	ug/l	SW846 8260D

Summary of Hits

Job Number: FA87225
Account: GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC
Collected: 07/12/21 thru 07/14/21

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Tert-Butyl Alcohol	478	20	5.3	ug/l	SW846 8260D
FA87225-25 07960-MW-30					
Benzene	479	10	3.1	ug/l	SW846 8260D
Toluene	19.7	10	3.0	ug/l	SW846 8260D
Ethylbenzene	5.3 J	10	3.6	ug/l	SW846 8260D
Xylene (total)	95.4	30	7.2	ug/l	SW846 8260D
Naphthalene	34.0 J	50	10	ug/l	SW846 8260D
1,2-Dichloroethane	50.1	10	3.1	ug/l	SW846 8260D
Di-Isopropyl Ether	3.6 J	10	2.4	ug/l	SW846 8260D
Tert-Amyl Alcohol	2730	200	53	ug/l	SW846 8260D
Tert-Butyl Alcohol	575	200	53	ug/l	SW846 8260D
FA87225-26 07960-TW-1					
Benzene	6.0	1.0	0.31	ug/l	SW846 8260D
Toluene	0.31 J	1.0	0.30	ug/l	SW846 8260D
Ethylbenzene	1.4	1.0	0.36	ug/l	SW846 8260D
Xylene (total)	2.8 J	3.0	0.72	ug/l	SW846 8260D
Methyl Tert Butyl Ether	6.4	1.0	0.23	ug/l	SW846 8260D
1,2-Dichloroethane	52.2	1.0	0.31	ug/l	SW846 8260D
Di-Isopropyl Ether	1.5	1.0	0.24	ug/l	SW846 8260D
Tert-Amyl Alcohol	956	50	13	ug/l	SW846 8260D
Tert-Butyl Alcohol	65.8	20	5.3	ug/l	SW846 8260D
FA87225-27 07960-TW-2					
Xylene (total)	1.6 J	3.0	0.72	ug/l	SW846 8260D
Methyl Tert Butyl Ether	1.6	1.0	0.23	ug/l	SW846 8260D
1,2-Dichloroethane	17.0	1.0	0.31	ug/l	SW846 8260D
Di-Isopropyl Ether	1.1	1.0	0.24	ug/l	SW846 8260D
Tert-Amyl Alcohol	936	20	5.3	ug/l	SW846 8260D
Tert-Butyl Alcohol	43.4	20	5.3	ug/l	SW846 8260D
FA87225-28 07960-TW-3					
Toluene	0.55 J	1.0	0.30	ug/l	SW846 8260B
FA87225-29 07960-TW-4					
1,2-Dichloroethane	0.53 J	1.0	0.31	ug/l	SW846 8260B

Summary of Hits

Job Number: FA87225
Account: GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC
Collected: 07/12/21 thru 07/14/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA87225-30	07960-TW-5					
Tert-Butyl Alcohol		15.5 J	20	5.3	ug/l	SW846 8260B
FA87225-31	07960-TW-7					
No hits reported in this sample.						
FA87225-32	07960-TW-8					
No hits reported in this sample.						
FA87225-33	07960-TW-11					
No hits reported in this sample.						
FA87225-34	07960-DUP-A					
Benzene		5810	100	31	ug/l	SW846 8260D
Toluene		66.6 J	100	30	ug/l	SW846 8260D
Ethylbenzene		680	100	36	ug/l	SW846 8260D
Xylene (total)		1590	300	72	ug/l	SW846 8260D
Naphthalene		303 J	500	100	ug/l	SW846 8260D
1,2-Dichloroethane		402	100	31	ug/l	SW846 8260D
Tert-Amyl Alcohol		9490	2000	530	ug/l	SW846 8260D
Tert-Butyl Alcohol		1440 J	2000	530	ug/l	SW846 8260D
FA87225-35	07960-DUP-B					
Benzene		6160	100	31	ug/l	SW846 8260D
Toluene		5240	100	30	ug/l	SW846 8260D
Ethylbenzene		1070	100	36	ug/l	SW846 8260D
Xylene (total)		11100	300	72	ug/l	SW846 8260D
Naphthalene		599	500	100	ug/l	SW846 8260D
1,2-Dichloroethane		261	100	31	ug/l	SW846 8260D
Tert-Amyl Alcohol		6600	2000	530	ug/l	SW846 8260D
FA87225-36	07960-FB-1					
Tert-Butyl Alcohol		32.4	20	5.3	ug/l	SW846 8260B
FA87225-37	07960-FB-2					
Tert-Butyl Alcohol		25.3	20	5.3	ug/l	SW846 8260D

Summary of Hits

Job Number: FA87225
Account: GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC
Collected: 07/12/21 thru 07/14/21

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA87225-38	07960-TB					
Toluene		18.3	1.0	0.30	ug/l	SW846 8260D

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-2		
Lab Sample ID:	FA87225-1	Date Sampled:	07/14/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260D	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P80161.D	1	07/23/21 17:49	LR	n/a	n/a	VP3253
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5.9	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	6.9	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	5.8	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	3.4	5.0	1.0	ug/l	J
107-06-2	1,2-Dichloroethane	14.5	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	0.75	1.0	0.24	ug/l	J
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	148	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	218	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	106%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-3		
Lab Sample ID:	FA87225-2	Date Sampled:	07/14/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260D	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P80162.D	100	07/23/21 18:13	LR	n/a	n/a	VP3253
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5940	100	31	ug/l	
108-88-3	Toluene	58.6	100	30	ug/l	J
100-41-4	Ethylbenzene	667	100	36	ug/l	
1330-20-7	Xylene (total)	1580	300	72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	23	ug/l	
91-20-3	Naphthalene	304	500	100	ug/l	J
107-06-2	1,2-Dichloroethane	412	100	31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	100	24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	8200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	24	ug/l	
75-85-4	Tert-Amyl Alcohol	9500	2000	530	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	200	24	ug/l	
75-65-0	Tert-Butyl Alcohol	1390	2000	530	ug/l	J
762-75-4	Tert-Butyl Formate [a]	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-4		
Lab Sample ID:	FA87225-3	Date Sampled:	07/13/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260B	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69836.D	1	07/22/21 11:04	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	0.39	1.0	0.31	ug/l	J
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	29.0	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	5.4	20	5.3	ug/l	J
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-5		
Lab Sample ID:	FA87225-4	Date Sampled:	07/14/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260D	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P80163.D	1	07/23/21 18:37	LR	n/a	n/a	VP3253
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	0.66	1.0	0.31	ug/l	J
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-6			
Lab Sample ID:	FA87225-5		Date Sampled:	07/14/21
Matrix:	AQ - Ground Water		Date Received:	07/15/21
Method:	SW846 8260D		Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P80164.D	1	07/23/21 19:01	LR	n/a	n/a	VP3253
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-7			
Lab Sample ID:	FA87225-6		Date Sampled:	07/14/21
Matrix:	AQ - Ground Water		Date Received:	07/15/21
Method:	SW846 8260D		Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P80165.D	10	07/23/21 19:25	LR	n/a	n/a	VP3253
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	554	10	3.1	ug/l	
108-88-3	Toluene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	184	10	3.6	ug/l	
1330-20-7	Xylene (total)	430	30	7.2	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	2.3	ug/l	
91-20-3	Naphthalene	60.0	50	10	ug/l	
107-06-2	1,2-Dichloroethane	44.1	10	3.1	ug/l	
108-20-3	Di-Isopropyl Ether	ND	10	2.4	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	500	100	ug/l	
64-17-5	Ethyl Alcohol	ND	2000	820	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	20	2.4	ug/l	
75-85-4	Tert-Amyl Alcohol	1550	200	53	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	20	2.4	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	200	53	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	200	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-8		
Lab Sample ID:	FA87225-7	Date Sampled:	07/13/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260B	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69837.D	1	07/22/21 11:27	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	07960-MW-9		
Lab Sample ID:	FA87225-8	Date Sampled:	07/13/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260B	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69838.D	1	07/22/21 11:52	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-10		
Lab Sample ID:	FA87225-9	Date Sampled:	07/13/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260B	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69839.D	1	07/22/21 12:16	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-11		
Lab Sample ID:	FA87225-10	Date Sampled:	07/14/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260D	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P80166.D	1	07/23/21 19:49	LR	n/a	n/a	VP3253
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	2.0	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	07960-MW-12		
Lab Sample ID:	FA87225-11	Date Sampled:	07/14/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260D	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P80167.D	1	07/23/21 20:13	LR	n/a	n/a	VP3253
Run #2	O64536.D	5	07/27/21 00:49	CG	n/a	n/a	VO2525

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	76.0 [a]	5.0	1.6	ug/l	
108-88-3	Toluene	0.80	1.0	0.30	ug/l	J
100-41-4	Ethylbenzene	11.1	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	1.3	3.0	0.72	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	5.5	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	75.5	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	3.7	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	3390 [a]	100	26	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	1090 [a]	100	27	ug/l	
762-75-4	Tert-Butyl Formate [b]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	94%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	95%	79-125%
2037-26-5	Toluene-D8	101%	99%	85-112%
460-00-4	4-Bromofluorobenzene	99%	92%	83-118%

(a) Result is from Run# 2
(b) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-14		
Lab Sample ID:	FA87225-12	Date Sampled:	07/13/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260B	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69840.D	1	07/22/21 12:39	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-15		
Lab Sample ID:	FA87225-13	Date Sampled:	07/13/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260B	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69841.D	1	07/22/21 13:03	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-17		
Lab Sample ID:	FA87225-14	Date Sampled:	07/13/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260B	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69842.D	1	07/22/21 13:27	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-18		
Lab Sample ID:	FA87225-15	Date Sampled:	07/13/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260B	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69843.D	1	07/22/21 13:51	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-19		
Lab Sample ID:	FA87225-16	Date Sampled:	07/13/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260B	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69844.D	1	07/22/21 14:15	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-20		
Lab Sample ID:	FA87225-17	Date Sampled:	07/13/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260B	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69845.D	1	07/22/21 14:39	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-21			
Lab Sample ID:	FA87225-18		Date Sampled:	07/14/21
Matrix:	AQ - Ground Water		Date Received:	07/15/21
Method:	SW846 8260D		Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P80168.D	1	07/23/21 20:37	LR	n/a	n/a	VP3253
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-22		
Lab Sample ID:	FA87225-19	Date Sampled:	07/14/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260D	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P80169.D	100	07/23/21 21:01	LR	n/a	n/a	VP3253
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5520	100	31	ug/l	
108-88-3	Toluene	4450	100	30	ug/l	
100-41-4	Ethylbenzene	946	100	36	ug/l	
1330-20-7	Xylene (total)	9410	300	72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	23	ug/l	
91-20-3	Naphthalene	660	500	100	ug/l	
107-06-2	1,2-Dichloroethane	261	100	31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	100	24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	8200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	24	ug/l	
75-85-4	Tert-Amyl Alcohol	5470	2000	530	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	200	24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	2000	530	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-23		
Lab Sample ID:	FA87225-20	**Date Sampled:**	07/13/21
Matrix:	AQ - Ground Water	**Date Received:**	07/15/21
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69846.D	1	07/22/21 15:03	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	92%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-25		
Lab Sample ID:	FA87225-21	Date Sampled:	07/13/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260B	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69847.D	1	07/22/21 15:28	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

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Client Sample ID:	07960-MW-27		
Lab Sample ID:	FA87225-22	Date Sampled:	07/14/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260D	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P80170.D	1	07/23/21 21:25	LR	n/a	n/a	VP3253
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	0.68	1.0	0.31	ug/l	J
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-28			
Lab Sample ID:	FA87225-23		Date Sampled:	07/13/21
Matrix:	AQ - Ground Water		Date Received:	07/15/21
Method:	SW846 8260B		Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69848.D	1	07/22/21 15:52	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

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Client Sample ID:	07960-MW-29		
Lab Sample ID:	FA87225-24	Date Sampled:	07/14/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260D	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P80171.D	1	07/23/21 21:49	LR	n/a	n/a	VP3253
Run #2	O64555.D	20	07/27/21 13:27	CG	n/a	n/a	VO2527

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2.7	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.0	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	85.9	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	3.2	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	5640 [a]	400	110	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	478	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [b]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	96%	79-125%
2037-26-5	Toluene-D8	100%	98%	85-112%
460-00-4	4-Bromofluorobenzene	102%	96%	83-118%

(a) Result is from Run# 2
(b) Associated CCV outside of control limits low.

ND = Not detected   MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-MW-30		
Lab Sample ID:	FA87225-25	Date Sampled:	07/14/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260D	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O64532.D	10	07/26/21 23:18	CG	n/a	n/a	VO2525
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	479	10	3.1	ug/l	
108-88-3	Toluene	19.7	10	3.0	ug/l	
100-41-4	Ethylbenzene	5.3	10	3.6	ug/l	J
1330-20-7	Xylene (total)	95.4	30	7.2	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	2.3	ug/l	
91-20-3	Naphthalene	34.0	50	10	ug/l	J
107-06-2	1,2-Dichloroethane	50.1	10	3.1	ug/l	
108-20-3	Di-Isopropyl Ether	3.6	10	2.4	ug/l	J
624-95-3	3,3-Dimethyl-1-Butanol	ND	500	100	ug/l	
64-17-5	Ethyl Alcohol	ND	2000	820	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	20	2.4	ug/l	
75-85-4	Tert-Amyl Alcohol	2730	200	53	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	20	2.4	ug/l	
75-65-0	Tert-Butyl Alcohol	575	200	53	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	200	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	89%		83-118%

(a) Associated BS recovery outside control limits high; however sample is ND.

ND = Not detected   MDL = Method Detection Limit   J = Indicates an estimated value
RL = Reporting Limit   B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range   N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-TW-1		
Lab Sample ID:	FA87225-26	Date Sampled:	07/14/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260D	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P80173.D	1	07/23/21 22:37	LR	n/a	n/a	VP3253
Run #2	O64538.D	2.5	07/27/21 01:35	CG	n/a	n/a	VO2525

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	6.0	1.0	0.31	ug/l	
108-88-3	Toluene	0.31	1.0	0.30	ug/l	J
100-41-4	Ethylbenzene	1.4	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	2.8	3.0	0.72	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	6.4	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	52.2	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	1.5	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	956 [a]	50	13	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	65.8	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [b]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	95%	79-125%
2037-26-5	Toluene-D8	101%	99%	85-112%
460-00-4	4-Bromofluorobenzene	101%	94%	83-118%

(a) Result is from Run# 2
(b) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-TW-2		
Lab Sample ID:	FA87225-27	Date Sampled:	07/14/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260D	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P80174.D	1	07/23/21 23:01	LR	n/a	n/a	VP3253
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	1.6	3.0	0.72	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	1.6	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	17.0	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	1.1	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	936	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	43.4	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-TW-3			
Lab Sample ID:	FA87225-28		Date Sampled:	07/13/21
Matrix:	AQ - Ground Water		Date Received:	07/15/21
Method:	SW846 8260B		Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69849.D	1	07/22/21 16:16	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	0.55	1.0	0.30	ug/l	J
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-TW-4			
Lab Sample ID:	FA87225-29		Date Sampled:	07/13/21
Matrix:	AQ - Ground Water		Date Received:	07/15/21
Method:	SW846 8260B		Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69850.D	1	07/22/21 16:41	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	0.53	1.0	0.31	ug/l	J
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	92%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-TW-5			
Lab Sample ID:	FA87225-30		Date Sampled:	07/13/21
Matrix:	AQ - Ground Water		Date Received:	07/15/21
Method:	SW846 8260B		Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69851.D	1	07/22/21 17:05	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	15.5	20	5.3	ug/l	J
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-TW-7			
Lab Sample ID:	FA87225-31		Date Sampled:	07/13/21
Matrix:	AQ - Ground Water		Date Received:	07/15/21
Method:	SW846 8260B		Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69852.D	1	07/22/21 17:29	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	92%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-TW-8			
Lab Sample ID:	FA87225-32		Date Sampled:	07/13/21
Matrix:	AQ - Ground Water		Date Received:	07/15/21
Method:	SW846 8260B		Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69853.D	1	07/22/21 17:53	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-TW-11		
Lab Sample ID:	FA87225-33	Date Sampled:	07/13/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260B	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69854.D	1	07/22/21 18:18	LR	n/a	n/a	VI2256
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-DUP-A		
Lab Sample ID:	FA87225-34	Date Sampled:	07/14/21
Matrix:	AQ - Ground Water	Date Received:	07/15/21
Method:	SW846 8260D	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P80175.D	100	07/23/21 23:25	LR	n/a	n/a	VP3253
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5810	100	31	ug/l	
108-88-3	Toluene	66.6	100	30	ug/l	J
100-41-4	Ethylbenzene	680	100	36	ug/l	
1330-20-7	Xylene (total)	1590	300	72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	23	ug/l	
91-20-3	Naphthalene	303	500	100	ug/l	J
107-06-2	1,2-Dichloroethane	402	100	31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	100	24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	8200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	24	ug/l	
75-85-4	Tert-Amyl Alcohol	9490	2000	530	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	200	24	ug/l	
75-65-0	Tert-Butyl Alcohol	1440	2000	530	ug/l	J
762-75-4	Tert-Butyl Formate [a]	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-DUP-B			
Lab Sample ID:	FA87225-35		Date Sampled:	07/14/21
Matrix:	AQ - Ground Water		Date Received:	07/15/21
Method:	SW846 8260D		Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O64557.D	100	07/27/21 14:12	CG	n/a	n/a	VO2527
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	6160	100	31	ug/l	
108-88-3	Toluene	5240	100	30	ug/l	
100-41-4	Ethylbenzene	1070	100	36	ug/l	
1330-20-7	Xylene (total)	11100	300	72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	23	ug/l	
91-20-3	Naphthalene	599	500	100	ug/l	
107-06-2	1,2-Dichloroethane	261	100	31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	100	24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	5000	1000	ug/l	
64-17-5	Ethyl Alcohol	ND	20000	8200	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	200	24	ug/l	
75-85-4	Tert-Amyl Alcohol	6600	2000	530	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	200	24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	2000	530	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	91%		83-118%

(a) Associated BS outside control limits high; however sample is ND.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 1

Client Sample ID:	07960-FB-1		
Lab Sample ID:	FA87225-36	Date Sampled:	07/13/21
Matrix:	AQ - Field Blank Water	Date Received:	07/15/21
Method:	SW846 8260B	Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I69835.D	1	07/22/21 10:40	LR	n/a	n/a	VI2256
Run #2 [a]	I69865.D	1	07/23/21 11:10	LR	n/a	n/a	VI2257

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	32.4	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	100%	79-125%
2037-26-5	Toluene-D8	94%	93%	85-112%
460-00-4	4-Bromofluorobenzene	99%	98%	83-118%

(a) Confirmation run.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-FB-2			
Lab Sample ID:	FA87225-37		Date Sampled:	07/14/21
Matrix:	AQ - Field Blank Water		Date Received:	07/15/21
Method:	SW846 8260D		Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O64550.D	1	07/27/21 11:31	CG	n/a	n/a	VO2527
Run #2 [a]	O64575.D	1	07/28/21 10:33	CG	n/a	n/a	VO2528

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	25.3	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [b]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	102%	79-125%
2037-26-5	Toluene-D8	98%	97%	85-112%
460-00-4	4-Bromofluorobenzene	94%	92%	83-118%

(a) Confirmation run.
(b) Associated BS outside control limits high; however sample is ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	07960-TB			
Lab Sample ID:	FA87225-38		Date Sampled:	07/13/21
Matrix:	AQ - Trip Blank Water		Date Received:	07/15/21
Method:	SW846 8260D		Percent Solids:	n/a
Project:	378 Truck Stop; 731 Hwy 378, Edgefield, SC			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O64531.D	1	07/26/21 22:55	CG	n/a	n/a	VO2525
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
108-88-3	Toluene	18.3	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate [a]	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	93%		83-118%

(a) Associated BS recovery outside control limits high; however sample is ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

4

Subcontract Lab Data

Report of Analysis

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Report of Analysis

SGS North America Inc. - Orlando
4405 Vineland Rd
Suite C-15
Orlando, FL 32811
Attention: Muna Mohammed

Project Name: FA87225X

Lot Number:**WG17009**

Date Completed:08/03/2021

Lu Oa

08/03/2021 4:30 PM
Approved and released by:
Project Manager II: **Lucas Odom**

The electronic signature above is the equivalent of a handwritten signature.
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Pace Analytical Services, LLC (*formerly Shealy Environmental Services, Inc.*)
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PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001 NELAC No: E87653 NC DENR No: 329 NC Field Parameters No: 5639

Case Narrative
SGS North America Inc. - Orlando
Lot Number: WG17009

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This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

EDB by Microextraction

Sample -003 recovered one surrogate above method criteria. No corrective action is required as this sample is non-detect fo rthe target compound.

Due to a large detection of the target compound, sample -035 has been analyzed at a 5X dilution causing the surrogate to recover outside of method criteria. No corrective action is required as it is known that dilutions of 5x and greater may impact surrogate recoveries.

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PACE ANALYTICAL SERVICES, LLC

Sample Summary
SGS North America Inc. - Orlando
Lot Number: WG17009

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	07960-MW-2	Aqueous	07/14/2021 1232	07/17/2021
002	07960-MW-3	Aqueous	07/14/2021 1349	07/17/2021
003	07960-MW-4	Aqueous	07/13/2021 1836	07/17/2021
004	07960-MW-5	Aqueous	07/14/2021 0821	07/17/2021
005	07960-MW-6	Aqueous	07/14/2021 0839	07/17/2021
006	07960-MW-7	Aqueous	07/14/2021 1256	07/17/2021
007	07960-MW-8	Aqueous	07/13/2021 1812	07/17/2021
008	07960-MW-9	Aqueous	07/13/2021 1717	07/17/2021
009	07960-MW-10	Aqueous	07/13/2021 1615	07/17/2021
010	07960-MW-11	Aqueous	07/14/2021 1041	07/17/2021
011	07960-MW-12	Aqueous	07/14/2021 1029	07/17/2021
012	07960-MW-14	Aqueous	07/13/2021 1518	07/17/2021
013	07960-MW-15	Aqueous	07/13/2021 1457	07/17/2021
014	07960-MW-17	Aqueous	07/13/2021 1309	07/17/2021
015	07960-MW-18	Aqueous	07/13/2021 1042	07/17/2021
016	07960-MW-19	Aqueous	07/13/2021 1154	07/17/2021
017	07960-MW-20	Aqueous	07/13/2021 1727	07/17/2021
018	07960-MW-21	Aqueous	07/14/2021 0903	07/17/2021
019	07960-MW-22	Aqueous	07/14/2021 0946	07/17/2021
020	07960-MW-23	Aqueous	07/13/2021 1215	07/17/2021
021	07960-MW-25	Aqueous	07/13/2021 1103	07/17/2021
022	07960-MW-27	Aqueous	07/14/2021 0922	07/17/2021
023	07960-MW-28	Aqueous	07/13/2021 1751	07/17/2021
024	07960-MW-29	Aqueous	07/14/2021 1321	07/17/2021
025	07960-MW-30	Aqueous	07/14/2021 1013	07/17/2021
026	07960-TW-1	Aqueous	07/14/2021 1208	07/17/2021
027	07960-TW-2	Aqueous	07/14/2021 1136	07/17/2021
028	07960-TW-3	Aqueous	07/13/2021 1656	07/17/2021
029	07960-TW-4	Aqueous	07/13/2021 1554	07/17/2021
030	07960-TW-5	Aqueous	07/13/2021 1436	07/17/2021
031	07960-TW-7	Aqueous	07/13/2021 1248	07/17/2021
032	07960-TW-8	Aqueous	07/13/2021 1133	07/17/2021
033	07960-TW-11	Aqueous	07/13/2021 1018	07/17/2021
034	07960-DUP A	Aqueous	07/14/2021 1200	07/17/2021
035	07960-DUP B	Aqueous	07/14/2021 1201	07/17/2021
036	07960-FB-1	Aqueous	07/13/2021 1300	07/17/2021
037	07960-FB-2	Aqueous	07/14/2021 1301	07/17/2021
038	07960-WSW-2	Aqueous	07/12/2021 1646	07/17/2021
039	07960-WSW-4	Aqueous	07/12/2021 1625	07/17/2021
040	07960-WSW-5	Aqueous	07/12/2021 1604	07/17/2021
041	07960-WSW-6	Aqueous	07/12/2021 1543	07/17/2021
042	07960-WSW-7	Aqueous	07/12/2021 1847	07/17/2021
043	07960-WSW-8	Aqueous	07/12/2021 1832	07/17/2021
044	07960-WSW-9	Aqueous	07/12/2021 1817	07/17/2021
045	07960-WSW-10	Aqueous	07/12/2021 1802	07/17/2021

Sample Summary (Continued)

Lot Number: WG17009

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
046	07960-WSW-11	Aqueous	07/12/2021 1751	07/17/2021
047	07960-WSW-12	Aqueous	07/12/2021 1740	07/17/2021
048	07960-WSW-14	Aqueous	07/12/2021 1718	07/17/2021
049	07960-WSW-15	Aqueous	07/12/2021 1707	07/17/2021
050	07960-WSW-X	Aqueous	07/12/2021 1522	07/17/2021
051	07960-DUP-C	Aqueous	07/12/2021 1530	07/17/2021
052	07960-WSW-FB	Aqueous	07/12/2021 1500	07/17/2021
053	07960-WSW-TB	Aqueous	07/12/2021 0900	07/17/2021

(53 samples)

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PACE ANALYTICAL SERVICES, LLC

Detection Summary
SGS North America Inc. - Orlando
Lot Number: WG17009

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	07960-MW-3	Aqueous	1,2-Dibromoethane (EDB)	8011	0.16		ug/L	7
006	07960-MW-7	Aqueous	1,2-Dibromoethane (EDB)	8011	0.12		ug/L	11
019	07960-MW-22	Aqueous	1,2-Dibromoethane (EDB)	8011	1.9	S	ug/L	24
034	07960-DUP A	Aqueous	1,2-Dibromoethane (EDB)	8011	0.17		ug/L	39
035	07960-DUP B	Aqueous	1,2-Dibromoethane (EDB)	8011	1.7	Q	ug/L	40
038	07960-WSW-2	Aqueous	tert-butyl alcohol (TBA)	8260D	0.49	J	ug/L	44
039	07960-WSW-4	Aqueous	tert-butyl alcohol (TBA)	8260D	2.3	J	ug/L	47
042	07960-WSW-7	Aqueous	tert-butyl alcohol (TBA)	8260D	3.5	J	ug/L	56
043	07960-WSW-8	Aqueous	tert-butyl alcohol (TBA)	8260D	1.9	J	ug/L	59
044	07960-WSW-9	Aqueous	tert-butyl alcohol (TBA)	8260D	2.5	J	ug/L	62
045	07960-WSW-10	Aqueous	tert-butyl alcohol (TBA)	8260D	2.1	J	ug/L	65
047	07960-WSW-12	Aqueous	1,2-Dichloroethane	524.2	0.41	J	ug/L	70
047	07960-WSW-12	Aqueous	tert-butyl alcohol (TBA)	8260D	0.69	J	ug/L	71
048	07960-WSW-14	Aqueous	tert-butyl alcohol (TBA)	8260D	2.6	J	ug/L	74
049	07960-WSW-15	Aqueous	tert-butyl alcohol (TBA)	8260D	0.47	J	ug/L	77
050	07960-WSW-X	Aqueous	tert-butyl alcohol (TBA)	8260D	1.1	J	ug/L	80
051	07960-DUP-C	Aqueous	tert-butyl alcohol (TBA)	8260D	0.88	J	ug/L	83
052	07960-WSW-FB	Aqueous	tert-butyl alcohol (TBA)	8260D	7.0	J	ug/L	86
053	07960-WSW-TB	Aqueous	tert-butyl alcohol (TBA)	8260D	1.4	J	ug/L	89

(19 detections)

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **07960-MW-2**
Date Sampled: **07/14/2021 1232**
Date Received: **07/17/2021**

Laboratory ID: **WG17009-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1612	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0047	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		110	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Laboratory ID: **WG17009-002**
Description: **07960-MW-3**
Matrix: **Aqueous**
Date Sampled: **07/14/2021 1349**
Date Received: **07/17/2021**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1633	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.16**		**0.019**	**0.0047**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		121	57-137

LOQ = Limit of Quantitation | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | DL = Detection Limit | Q = Surrogate failure
ND = Not detected at or above the DL | N = Recovery is out of criteria | P = The RPD between two GC columns exceeds 40% | J = Estimated result < LOQ and ≥ DL | L = LCS/LCSD failure
H = Out of holding time | W = Reported on wet weight basis | S = MS/MSD failure

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EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-003**
Description: **07960-MW-4**	Matrix: **Aqueous**
Date Sampled: **07/13/2021 1836**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1655	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	Q	0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	142	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-004**
Description: **07960-MW-5**	Matrix: **Aqueous**
Date Sampled: **07/14/2021 0821**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1705	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		109	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-005**
Description: **07960-MW-6**	Matrix: **Aqueous**
Date Sampled: **07/14/2021 0839**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1716	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		115	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-006**
Description: **07960-MW-7**	Matrix: **Aqueous**
Date Sampled: **07/14/2021 1256**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1727	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.12**		**0.019**	**0.0048**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		123	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-007**
Description: **07960-MW-8**	Matrix: **Aqueous**
Date Sampled: **07/13/2021 1812**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1738	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0047	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		109	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-008**
Description: **07960-MW-9**	Matrix: **Aqueous**
Date Sampled: **07/13/2021 1717**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1748	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0047	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		111	57-137

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-009**
Description: **07960-MW-10**	Matrix: **Aqueous**
Date Sampled: **07/13/2021 1615**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1759	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		112	57-137

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Laboratory ID: **WG17009-010**
Description: **07960-MW-11**
Matrix: **Aqueous**
Date Sampled: **07/14/2021 1041**
Date Received: **07/17/2021**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1810	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0047	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		114	57-137

4

LOQ = Limit of Quantitation | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | DL = Detection Limit | Q = Surrogate failure
ND = Not detected at or above the DL | N = Recovery is out of criteria | P = The RPD between two GC columns exceeds 40% | J = Estimated result < LOQ and ≥ DL | L = LCS/LCSD failure
H = Out of holding time | W = Reported on wet weight basis | S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-011**
Description: **07960-MW-12**	Matrix: **Aqueous**
Date Sampled: **07/14/2021 1029**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1820	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		113	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-012**
Description: **07960-MW-14**	Matrix: **Aqueous**
Date Sampled: **07/13/2021 1518**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1831	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

4

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		115	57-137

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Laboratory ID: **WG17009-013**
Description: **07960-MW-15**
Matrix: **Aqueous**
Date Sampled: **07/13/2021 1457**
Date Received: **07/17/2021**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1842	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		114	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-014**
Description: **07960-MW-17**	Matrix: **Aqueous**
Date Sampled: **07/13/2021 1309**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1852	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		118	57-137

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-015**
Description: **07960-MW-18**	Matrix: **Aqueous**
Date Sampled: **07/13/2021 1042**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1903	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		114	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-016**
Description: **07960-MW-19**	Matrix: **Aqueous**
Date Sampled: **07/13/2021 1154**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1914	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		112	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Description: **07960-MW-20**
Date Sampled: **07/13/2021 1727**
Date Received: **07/17/2021**

Laboratory ID: **WG17009-017**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1925	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		115	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-018**
Description: **07960-MW-21**	Matrix: **Aqueous**
Date Sampled: **07/14/2021 0903**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 1935	JPB	07/19/2021 0951	99265

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0047	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		118	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-019**
Description: **07960-MW-22**	Matrix: **Aqueous**
Date Sampled: **07/14/2021 0946**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	5	07/26/2021 1204	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**1.9**	**S**	**0.095**	**0.024**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		112	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-020**
Description: **07960-MW-23**	Matrix: **Aqueous**
Date Sampled: **07/13/2021 1215**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 2051	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		113	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-021**
Description: **07960-MW-25**	Matrix: **Aqueous**
Date Sampled: **07/13/2021 1103**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 2112	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		115	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-022**
Description: **07960-MW-27**	Matrix: **Aqueous**
Date Sampled: **07/14/2021 0922**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 2123	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		113	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-023**
Description: **07960-MW-28**	Matrix: **Aqueous**
Date Sampled: **07/13/2021 1751**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 2133	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		113	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Laboratory ID: **WG17009-024**
Description: **07960-MW-29**
Matrix: **Aqueous**
Date Sampled: **07/14/2021 1321**
Date Received: **07/17/2021**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 2144	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		116	57-137

4

LOQ = Limit of Quantitation | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | DL = Detection Limit | Q = Surrogate failure
ND = Not detected at or above the DL | N = Recovery is out of criteria | P = The RPD between two GC columns exceeds 40% | J = Estimated result < LOQ and ≥ DL | L = LCS/LCSD failure
H = Out of holding time | W = Reported on wet weight basis | S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-025**
Description: **07960-MW-30**	Matrix: **Aqueous**
Date Sampled: **07/14/2021 1013**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 2155	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		106	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Laboratory ID: **WG17009-026**
Description: **07960-TW-1**
Matrix: **Aqueous**
Date Sampled: **07/14/2021 1208**
Date Received: **07/17/2021**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 2206	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0047	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		112	57-137

4

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-027**
Description: **07960-TW-2**	Matrix: **Aqueous**
Date Sampled: **07/14/2021 1136**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 2216	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		101	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-028**
Description: **07960-TW-3**	Matrix: **Aqueous**
Date Sampled: **07/13/2021 1656**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 2227	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		110	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-029**
Description: **07960-TW-4**	Matrix: **Aqueous**
Date Sampled: **07/13/2021 1554**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 2238	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		104	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Laboratory ID: **WG17009-030**
Description: **07960-TW-5**
Matrix: **Aqueous**
Date Sampled: **07/13/2021 1436**
Date Received: **07/17/2021**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 2248	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0047	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		110	57-137

4

LOQ = Limit of Quantitation | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | DL = Detection Limit | Q = Surrogate failure
ND = Not detected at or above the DL | N = Recovery is out of criteria | P = The RPD between two GC columns exceeds 40% | J = Estimated result < LOQ and ≥ DL | L = LCS/LCSD failure
H = Out of holding time | W = Reported on wet weight basis | S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-031**
Description: **07960-TW-7**	Matrix: **Aqueous**
Date Sampled: **07/13/2021 1248**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 2259	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		116	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-032**
Description: **07960-TW-8**	Matrix: **Aqueous**
Date Sampled: **07/13/2021 1133**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 2310	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		108	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-033**
Description: **07960-TW-11**	Matrix: **Aqueous**
Date Sampled: **07/13/2021 1018**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 2321	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		110	57-137

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Laboratory ID: **WG17009-034**
Description: **07960-DUP A**
Matrix: **Aqueous**
Date Sampled: **07/14/2021 1200**
Date Received: **07/17/2021**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 2331	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.17**		**0.019**	**0.0048**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		126	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-035**
Description: **07960-DUP B**	Matrix: **Aqueous**
Date Sampled: **07/14/2021 1201**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	5	07/26/2021 1226	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**1.7**	**Q**	**0.096**	**0.024**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	140	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-036**
Description: **07960-FB-1**	Matrix: **Aqueous**
Date Sampled: **07/13/2021 1300**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/22/2021 2353	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		115	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-037**
Description: **07960-FB-2**	Matrix: **Aqueous**
Date Sampled: **07/14/2021 1301**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	07/23/2021 0004	JPB	07/19/2021 1004	99266

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0047	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		112	57-137

4

LOQ = Limit of Quantitation | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | DL = Detection Limit | Q = Surrogate failure
ND = Not detected at or above the DL | N = Recovery is out of criteria | P = The RPD between two GC columns exceeds 40% | J = Estimated result < LOQ and ≥ DL | L = LCS/LCSD failure
H = Out of holding time | W = Reported on wet weight basis | S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-038**
Description: **07960-WSW-2**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1646**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	07/21/2021 1514	BWS		99628

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		84	70-130
1,2-Dichlorobenzene-d4		108	70-130

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-038**
Description: **07960-WSW-2**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1646**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/24/2021 1852	BWS		99951

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260D**	**0.49**	**J**	**20**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		107	70-130
Bromofluorobenzene		104	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-038**
Description: **07960-WSW-2**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1646**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	07/23/2021 0652	JPB	07/22/2021 1120	99703

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0039	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		93	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-039**
Description: **07960-WSW-4**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1625**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	07/21/2021 1539	BWS		99628

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		86	70-130
1,2-Dichlorobenzene-d4		116	70-130

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Laboratory ID: **WG17009-039**
Description: **07960-WSW-4**
Matrix: **Aqueous**
Date Sampled: **07/12/2021 1625**
Date Received: **07/17/2021**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/24/2021 1916	BWS		99951

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260D**	**2.3**	**J**	**20**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		107	70-130
Bromofluorobenzene		108	70-130

LOQ = Limit of Quantitation | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | DL = Detection Limit | Q = Surrogate failure
ND = Not detected at or above the DL | N = Recovery is out of criteria | P = The RPD between two GC columns exceeds 40% | J = Estimated result < LOQ and ≥ DL | L = LCS/LCSD failure
H = Out of holding time | W = Reported on wet weight basis | S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-039**
Description: **07960-WSW-4**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1625**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	07/23/2021 0704	JPB	07/22/2021 1120	99703

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0040	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		101	57-137

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

4

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-040**
Description: **07960-WSW-5**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1604**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	07/21/2021 1603	BWS		99628

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		85	70-130
1,2-Dichlorobenzene-d4		89	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-040**
Description: **07960-WSW-5**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1604**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/24/2021 1941	BWS		99951

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		109	70-130
Bromofluorobenzene		108	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-040**
Description: **07960-WSW-5**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1604**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	07/23/2021 0716	JPB	07/22/2021 1120	99703

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0039	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		108	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-041**
Description: **07960-WSW-6**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1543**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	07/21/2021 1628	BWS		99628

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		85	70-130
1,2-Dichlorobenzene-d4		86	70-130

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-041**
Description: **07960-WSW-6**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1543**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/24/2021 2005	BWS		99951

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Toluene-d8		108	70-130
Bromofluorobenzene		105	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-041**
Description: **07960-WSW-6**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1543**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	07/23/2021 0728	JPB	07/22/2021 1120	99703

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0040	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		102	57-137

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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4

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-042**
Description: **07960-WSW-7**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1847**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	07/21/2021 1653	BWS		99628

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		78	70-130
1,2-Dichlorobenzene-d4		87	70-130

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando** Laboratory ID: **WG17009-042**
Description: **07960-WSW-7** Matrix: **Aqueous**
Date Sampled: **07/12/2021 1847**
Date Received: **07/17/2021**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/24/2021 2029	BWS		99951

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260D**	**3.5**	**J**	**20**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130
Toluene-d8		109	70-130
Bromofluorobenzene		104	70-130

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-042**
Description: **07960-WSW-7**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1847**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	07/23/2021 0740	JPB	07/22/2021 1120	99703

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0040	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		101	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-043**
Description: **07960-WSW-8**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1832**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	07/21/2021 1718	BWS		99628

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		84	70-130
1,2-Dichlorobenzene-d4		86	70-130

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando** Laboratory ID: **WG17009-043**

Description: **07960-WSW-8** Matrix: **Aqueous**

Date Sampled: **07/12/2021 1832**

Date Received: **07/17/2021**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/24/2021 2053	BWS		99951

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260D**	**1.9**	**J**	**20**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		108	70-130
Bromofluorobenzene		106	70-130

LOQ = Limit of Quantitation | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | DL = Detection Limit | Q = Surrogate failure
ND = Not detected at or above the DL | N = Recovery is out of criteria | P = The RPD between two GC columns exceeds 40% | J = Estimated result < LOQ and ≥ DL | L = LCS/LCSD failure
H = Out of holding time | W = Reported on wet weight basis | S = MS/MSD failure

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EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-043**
Description: **07960-WSW-8**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1832**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	07/23/2021 0752	JPB	07/22/2021 1120	99703

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0039	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		106	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-044**
Description: **07960-WSW-9**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1817**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	07/21/2021 1742	BWS		99628

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		79	70-130
1,2-Dichlorobenzene-d4		84	70-130

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-044**
Description: **07960-WSW-9**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1817**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/24/2021 2117	BWS		99951

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260D**	**2.5**	**J**	**20**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Toluene-d8		108	70-130
Bromofluorobenzene		107	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-044**
Description: **07960-WSW-9**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1817**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	07/26/2021 1735	JPB	07/26/2021 0838	99989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0039	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		112	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-045**
Description: **07960-WSW-10**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1802**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	07/21/2021 1807	BWS		99628

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND	0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND	0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	524.2	ND	0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND	0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND	0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND	0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND	0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		78	70-130
1,2-Dichlorobenzene-d4		86	70-130

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-045**
Description: **07960-WSW-10**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1802**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/24/2021 2142	BWS		99951

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260D**	**2.1**	**J**	**20**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		108	70-130
Bromofluorobenzene		104	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-045**
Description: **07960-WSW-10**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1802**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	07/26/2021 1748	JPB	07/26/2021 0838	99989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.019	0.0039	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		113	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
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Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Laboratory ID: **WG17009-046**
Description: **07960-WSW-11**
Matrix: **Aqueous**
Date Sampled: **07/12/2021 1751**
Date Received: **07/17/2021**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	07/21/2021 1832	BWS		99628

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		83	70-130
1,2-Dichlorobenzene-d4		87	70-130

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: SGS North America Inc. - Orlando	Laboratory ID: WG17009-046
Description: 07960-WSW-11	Matrix: Aqueous
Date Sampled: 07/12/2021 1751	
Date Received: 07/17/2021	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/24/2021 2206	BWS		99951

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Toluene-d8		109	70-130
Bromofluorobenzene		107	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**
Laboratory ID: **WG17009-046**
Description: **07960-WSW-11**
Matrix: **Aqueous**
Date Sampled: **07/12/2021 1751**
Date Received: **07/17/2021**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	07/26/2021 1800	JPB	07/26/2021 0838	99989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.019	0.0038	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		117	57-137

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-047**
Description: **07960-WSW-12**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1740**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	07/21/2021 1857	BWS		99628

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1
1,2-Dichloroethane	**107-06-2**	**524.2**	**0.41**	**J**	**0.50**	**0.40**	**ug/L**	**1**
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		77	70-130
1,2-Dichlorobenzene-d4		85	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: SGS North America Inc. - Orlando	Laboratory ID: WG17009-047
Description: 07960-WSW-12	Matrix: Aqueous
Date Sampled: 07/12/2021 1740	
Date Received: 07/17/2021	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/24/2021 2231	BWS		99951

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260D**	**0.69**	**J**	**20**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		108	70-130
Bromofluorobenzene		107	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-047**
Description: **07960-WSW-12**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1740**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	07/26/2021 1812	JPB	07/26/2021 0838	99989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.019	0.0039	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		115	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-048**
Description: **07960-WSW-14**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1718**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	524.2	524.2	1	07/22/2021 1210	BWS		99811

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	2
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	2
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	2
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	2
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	2
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
Bromofluorobenzene		89	70-130
1,2-Dichlorobenzene-d4		92	70-130

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-048**
Description: **07960-WSW-14**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1718**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/24/2021 2255	BWS		99951

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260D**	**2.6**	**J**	**20**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130
Toluene-d8		79	70-130
Bromofluorobenzene		101	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-048**
Description: **07960-WSW-14**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1718**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	10	07/30/2021 1547	JPB	07/26/2021 0838	99989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND	Q	0.18	0.036	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando** Laboratory ID: **WG17009-049**
Description: **07960-WSW-15** Matrix: **Aqueous**
Date Sampled: **07/12/2021 1707**
Date Received: **07/17/2021**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	07/21/2021 1947	BWS		99628

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		89	70-130
1,2-Dichlorobenzene-d4		92	70-130

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-049**
Description: **07960-WSW-15**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1707**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/24/2021 2319	BWS		99951

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260D**	**0.47**	**J**	**20**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	70-130
Toluene-d8		109	70-130
Bromofluorobenzene		104	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-049**
Description: **07960-WSW-15**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1707**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	07/26/2021 1836	JPB	07/26/2021 0838	99989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0039	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		115	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**
Laboratory ID: **WG17009-050**
Description: **07960-WSW-X**
Matrix: **Aqueous**
Date Sampled: **07/12/2021 1522**
Date Received: **07/17/2021**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	07/22/2021 1031	BWS		99811

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		90	70-130
1,2-Dichlorobenzene-d4		80	70-130

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-050**
Description: **07960-WSW-X**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1522**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/24/2021 2343	BWS		99951

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260D**	**1.1**	**J**	**20**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130
Toluene-d8		111	70-130
Bromofluorobenzene		108	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-050**
Description: **07960-WSW-X**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1522**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	07/26/2021 1848	JPB	07/26/2021 0838	99989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.019	0.0039	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		111	57-137

LOQ = Limit of Quantitation | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | DL = Detection Limit | Q = Surrogate failure
ND = Not detected at or above the DL | N = Recovery is out of criteria | P = The RPD between two GC columns exceeds 40% | J = Estimated result < LOQ and ≥ DL | L = LCS/LCSD failure
H = Out of holding time | W = Reported on wet weight basis | S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-051**
Description: **07960-DUP-C**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1530**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	07/22/2021 1056	BWS		99811

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		81	70-130
1,2-Dichlorobenzene-d4		84	70-130

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-051**
Description: **07960-DUP-C**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1530**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/25/2021 0008	BWS		99951

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260D**	**0.88**	**J**	**20**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Toluene-d8		110	70-130
Bromofluorobenzene		107	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-051**
Description: **07960-DUP-C**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1530**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	07/26/2021 1900	JPB	07/26/2021 0838	99989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.019	0.0039	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		118	57-137

4

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-052**
Description: **07960-WSW-FB**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1500**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	07/21/2021 1425	BWS		99628

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		80	70-130
1,2-Dichlorobenzene-d4		86	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando** Laboratory ID: **WG17009-052**
Description: **07960-WSW-FB** Matrix: **Aqueous**
Date Sampled: **07/12/2021 1500**
Date Received: **07/17/2021**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/24/2021 1803	BWS		99951

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260D**	**7.0**	**J**	**20**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		108	70-130
Bromofluorobenzene		105	70-130

LOQ = Limit of Quantitation; B = Detected in the method blank; E = Quantitation of compound exceeded the calibration range; DL = Detection Limit; Q = Surrogate failure
ND = Not detected at or above the DL; N = Recovery is out of criteria; P = The RPD between two GC columns exceeds 40%; J = Estimated result < LOQ and ≥ DL; L = LCS/LCSD failure
H = Out of holding time; W = Reported on wet weight basis; S = MS/MSD failure

EDB & DBCP by Microextraction

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-052**
Description: **07960-WSW-FB**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 1500**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	07/26/2021 1912	JPB	07/26/2021 0838	99989

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	504.1	ND		0.020	0.0039	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		108	57-137

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-053**
Description: **07960-WSW-TB**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 0900**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	07/21/2021 1449	BWS		99628

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Benzene	71-43-2	524.2	ND		0.50	0.40	ug/L	1
1,2-Dichloroethane	107-06-2	524.2	ND		0.50	0.40	ug/L	1
Ethylbenzene	100-41-4	524.2	ND		0.50	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	524.2	ND		0.50	0.40	ug/L	1
Naphthalene	91-20-3	524.2	ND		0.50	0.40	ug/L	1
Toluene	108-88-3	524.2	ND		0.50	0.40	ug/L	1
Xylenes (total)	1330-20-7	524.2	ND		0.50	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		78	70-130
1,2-Dichlorobenzene-d4		86	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Volatile Organic Compounds by GC/MS

Client: **SGS North America Inc. - Orlando**	Laboratory ID: **WG17009-053**
Description: **07960-WSW-TB**	Matrix: **Aqueous**
Date Sampled: **07/12/2021 0900**	
Date Received: **07/17/2021**	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	07/24/2021 1828	BWS		99951

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260D	ND		100	52	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260D**	**1.4**	**J**	**20**	**0.40**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		107	70-130
Bromofluorobenzene		105	70-130

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

4

Chain of Custody

and

Miscellaneous Documents

SGS

CHAIN OF CUSTODY

SGS North America Inc. - Orlando
4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com/ehsusa

Page 1 of 5

FED EX Tracking #:
SGS Quote #:
Bottle Order Control #:
SGS Job #: FA87225X

Client / Reporting Information	Project Information	
Company Name: SGS North America Inc.	Project Name: FA87225X	
Street Address: 4405 Vineland Rd, Suite C-15	Street:	Billing Information (If different from Report to)
City: Orlando State: FL Zip: 32811	City: State: SC	Company Name:
Project Contact: E-mail: muna.mohammed@sgs.com	Project #:	Street Address:
Phone #: 407-425-6700 Fax #:	Client Purchase Order #:	City: State: Zip:
Sampler(s) Name(s): KPJB Phone:	Project Manager:	Attention:

Requested Analysis (see TEST CODE sheet)

WG17009

LJO

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	V624EDB, V624STD, V8260OXYS,	V624STD, V8260OXYS,	V8011EDB,								LAB USE ONLY
1X	07960-MW-2		7/14/21	12:32:00 PM	KPJB	AQ	2	2										X								
2X	07960-MW-3		7/14/21	1:49:00 PM	KPJB	AQ	2	2										X								
3X	07960-MW-4		7/13/21	0:36:00 PM	KPJB	AQ	2	2										X								
4X	07960-MW-5		7/14/21	8:21:00 AM	KPJB	AQ	2	2										X								
5X	07960-MW-6		7/14/21	8:39:00 AM	KPJB	AQ	2	2										X								
6X	07960-MW-7		7/14/21	12:56:00 PM	KPJB	AQ	2	2										X								
7X	07960-MW-8		7/13/21	6:12:00 PM	KPJB	AQ	2	2										X								
8X	07960-MW-9		7/13/21	5:17:00 PM	KPJB	AQ	2	2										X								
9X	07960-MW-10		7/13/21	4:15:00 PM	KPJB	AQ	2	2										X								
10X	07960-MW-11		7/14/21	10:41:00 AM	KPJB	AQ	2	2										X								
11X	07960-MW-12		7/14/21	10:29:00 AM	KPJB	AQ	2	2										X								
12X	07960-MW-14		7/13/21	3:18:00 PM	KPJB	AQ	2	2										X								

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

Turnaround Time (Business days)

Approved By (SGS PM) / Date:

- [ ] Standard 10 Day (business)
- [ ] 5 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY
- [x] other Due 7/22/2021

Emergency & Rush T/A data available via Lablink. Approval needed for RUSH/Emergency TAT

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] REDT1 (Level 3)
- [ ] FULT1 (Level 4)
- [ ] Commercial "C"
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Shealy

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Pfeift	7/16/21	1	2		2
Relinquished by Sampler: 3	Date Time: 1700	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5 FedEx	Date Time: 7.17.21 1023	Received By: 5 Kapenzunens	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ Therm. ID: On Ice: H' Cooler Temp. 3.4°C

3.1°C
2.4°C

PACE ANALYTICAL SERVICES, LLC

4

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

SGS

CHAIN OF CUSTODY

SGS North America Inc. - Orlando
4405 Vineland Road, Suite C-15 Orlando, FL 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com/ehsusa

FED-EX Tracking #:
SGS Quote #:
Bottle Order Control #:
SGS Job #: FA87225X

Client / Reporting Information	Project Information	
Company Name: SGS North America Inc.	Project Name: FA87225X	
Street Address: 4405 Vineland Rd, Suite C-15	Street:	Billing Information (if different from Report to)
City: Orlando State: FL Zip: 32811	City: State: SC	Company Name
Project Contact: E-mail: muna.mohammed@sgs.com	Project #:	Street Address
Phone #: 407-425-6700 Fax #:	Client Purchase Order #:	City State Zip
Sampler(s) Name(s): KPJB Phone:	Project Manager:	Attention:

Requested Analysis (see TEST CODE sheet)

WG17009

Lab Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	V8260B ,V8260STD ,V8260OXYS ,	V8260STD ,V8260OXYS ,	V8011EDB ,	LAB USE ONLY
13X	07960-MW-16		7/13/21	2:57:00 PM	KPJB	AQ	2	2										X	
14X	07960-MW-17		7/13/21	1:09:00 PM	KPJB	AQ	2	2										X	
15X	07960-MW-18		7/13/21	10:42:00 AM	KPJB	AQ	2	2										X	
16X	07960-MW-19		7/13/21	11:54:00 AM	KPJB	AQ	2	2										X	
17X	07960-MW-20		7/13/21	5:27:00 PM	KPJB	AQ	2	2										X	
18X	07960-MW-21		7/14/21	9:03:00 AM	KPJB	AQ	2	2										X	
19X	07960-MW-22		7/14/21	9:46:00 AM	KPJB	AQ	2	2										X	
20X	07960-MW-23		7/13/21	12:15:00 PM	KPJB	AQ	2	2										X	
21X	07960-MW-25		7/13/21	11:03:00 AM	KPJB	AQ	2	2										X	
22X	07960-MW-27		7/14/21	8:22:00 AM	KPJB	AQ	2	2										X	
23X	07960-MW-28		7/13/21	5:51:00 PM	KPJB	AQ	2	2										X	
24X	07960-MW-29		7/14/21	1:21:00 PM	KPJB	AQ	2	2										X	

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL - Sludge, SED - Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB - Field Blank, EB - Equipment Blank, RB - Rinse Blank, TB - Trip Blank

Turnaround Time (Business days)

Approved By (SGS PM): / Date:

- [ ] Standard 10 Day (business)
- [ ] 5 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY
- [x] other Due 7/22/2021

Emergency & Rush T/A data available via LabLink. Approval needed for RUSH/Emergency TAT

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [x] Commercial "B" (Level 2)
- [ ] REDT1 (Level 3)
- [ ] FULT1 (Level 4)
- [ ] Commercial "C"
- [ ] State Forms
- [ ] EDD Format
- [ ] Other ______

Commercial "A" = Results Only
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Comments / Special Instructions

Shealy

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	7/16/21	1	2		2
Relinquished by Sampler: 3	Date Time: 1700	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5 FedEx	Date Time: 7-7-21 1003	Received By: 5 Rayner [signature]	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ Therm. ID Cooler Temp. 3.4°C 3.1°C IR 249

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FED-EX Tracking #:
Bottle Order Control #:
SGS Quote #:
SGS Job #: FA87225X

Client / Reporting Information		Project Information	
Company Name: SGS North America Inc.		Project Name: FA87225X	
Street Address: 4405 Vineland Rd, Suite C-15		Street	
City: Orlando	State: FL Zip: 32811	City / State: SC	Billing Information (If different from Report to) Company Name
Project Contact / E-mail: mona.mohammed@sgs.com		Project #	Street Address
Phone #: 407-425-6700	Fax #	Client Purchase Order #	City / State / Zip
Sampler(s) Name(s): KPJB	Phone #	Project Manager	Attention:

Requested Analysis (see TEST CODE sheet)

WG17009

LJO

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	V504EDB, V524STD, V8260OXY3,	V524STD, V8260OXY8,	V8011EDB,	LAB USE ONLY
25X	07960-MW-30		7/14/21	10:13:00 AM	KPJB	AQ	2	2										X	
26X	07960-TW-1		7/14/21	12:08:00 PM	KPJB	AQ	2	2										X	
27X	07960-TW-2		7/14/21	11:38:00 AM	KPJB	AQ	2	2										X	
28X	07960-TW-3		7/13/21	4:56:00 PM	KPJB	AQ	2	2										X	
29X	07960-TW-4		7/13/21	3:54:00 PM	KPJB	AQ	2	2										X	
30X	07960-TW-5		7/13/21	2:30:00 PM	KPJB	AQ	2	2										X	
31X	07960-TW-7		7/13/21	12:48:00 PM	KPJB	AQ	2	2										X	
32X	07960-TW-8		7/13/21	11:33:00 AM	KPJB	AQ	2	2										X	
33X	07960-TW-11		7/13/21	10:16:00 AM	KPJB	AQ	2	2										X	
34X	07960-DUP-A		7/14/21	12:00:00 PM	KPJB	AQ	2	2										X	
35X	07960-DUP-B		7/14/21	12:01:00 PM	KPJB	AQ	2	2										X	
36X	07960-FB-1		7/13/21	1:00:00 PM	KPJB	AQ	2	2										X	

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL - Sludge, SED - Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solids, WP - Wipe, FB - Field Blank, EB - Equipment Blank, RB - Rinse Blank, TB - Trip Blank

Turnaround Time (Business days)

- [ ] Standard 10 Day (Business)
- [ ] 5 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY
- [x] other Due 7/22/2021

Approved By (SGS PM) / Date:

Emergency & Rush T/A data available via Lablink. Approval needed for RUSH/Emergency TAT

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
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- [ ] REDT1 (Level 3)
- [ ] FULT1 (Level 4)
- [ ] Commercial "C"
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Comments / Special Instructions

Shealy

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Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	7/15/21	1	2		2
Relinquished by Sampler: 3	Date Time: 1700	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5 fedex	Date Time: 7-16-21 1023	Received By: 5 Kasper [signature]	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ Therm. ID / On Ice ☐ / Cooler Temp. 3.4°C

3.1°C
2.4°C

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City: Orlando State: FL Zip: 32811	City: State: SC	Company Name:
Project Contact: E-mail: muna.mohammed@sgs.com	Project #:	Street Address:
Phone #: 407-425-6700 Fax #:	Client Purchase Order #:	City: State: Zip:
Sampler(s) Name(s): KPJB Phone:	Project Manager:	Attention:

Requested Analysis (see TEST CODE sheet)

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37X	07960-FB-2		7/14/21	1:01:00 PM	KPJB	AQ	2	2											X	
39X	07960-WSW-2		7/12/21	4:40:00 PM	KPJB	DW	9	6								3	X			
40X	07960-WSW-4		7/12/21	4:20:00 PM	KPJB	DW	9	6								3	X			
41X	07960-WSW-5		7/12/21	4:04:00 PM	KPJB	DW	9	6								3	X			
42X	07960-WSW-6		7/12/21	3:43:00 PM	KPJB	DW	9	6								3	X			
43X	07960-WSW-7		7/12/21	6:47:00 PM	KPJB	DW	9	6								3	X			
44X	07960-WSW-8		7/12/21	6:32:00 PM	KPJB	DW	9	6								3	X			
45X	07960-WSW-9		7/12/21	6:17:00 PM	KPJB	DW	9	6								3	X			
46X	07960-WSW-10		7/12/21	6:02:00 PM	KPJB	DW	9	6								3	X			
47X	07960-WSW-11		7/12/21	5:51:00 PM	KPJB	DW	9	6								3	X			
48X	07960-WSW-12		7/12/21	5:40:00 PM	KPJB	DW	9	6								3	X			
49X	07960-WSW-14		7/12/21	5:18:00 PM	KPJB	DW	9	6								3	X			

WG17009

LID

Matrix Codes
DW - Drinking Water
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SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
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1 Ptrant	7/16/21	1	2		2
Relinquished by Sampler: 3	Date Time: 1900	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5 fedex	Date Time: 7-17-21 1023	Received By: 5 Kayen Mwens	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ Therm. ID: On Ice ☐ Cooler Temp. 3.4°C 3.1°C 2.4°C

PACE ANALYTICAL SERVICES, LLC

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WG17009

LJO

Client / Reporting Information		Project Information	
Company Name: SGS North America Inc.		Project Name: FA87225X	
Street Address: 4405 Vineland Rd, Suite C-15		Street	Billing Information (If different from Report to)
City: Orlando State: FL Zip: 32811		City State: SC	Company Name
Project Contact E-mail: muna.mohammed@sgs.com		Project #	Street Address
Phone #: 407-425-6700	Fax #	Client Purchase Order #	City State Zip
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50X	07960-WSW-15		7/12/21	5:07:00 PM	KPJB	DW	9	6								3	X			
51X	07960-WSW-X		7/12/21	3:22:00 PM	KPJB	DW	9	6								3	X			
52X	07960-DUP-C		7/12/21	3:30:00 PM	KPJB	DW	9	6								3	X			
53X	07960-WSW-FB		7/12/21	3:00:00 PM	KPJB	DW	9	6								3	X			
54X	07960-WSW-TB		7/12/21	9:00:00 AM	KPJB	DW	4	4										X		

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1 [signature]	7/16/21	1	2		2
3 Relinquished by Sampler:	Date Time: 1700	3 Received By:	4 Relinquished By:	Date Time:	4 Received By:
5 Relinquished By: Fedex	Date Time: 7-17-21 1023	5 Received By: Kouyar [signature]	Custody Seal #	Intact / Not intact	Preserved where applicable; Therm. ID; On Ice; Cooler Temp. 3.4°C

2.4°C
3.1°C

PACE ANALYTICAL SERVICES, LLC

4

PaceAnalytical

Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020
Page 1 of 1

Sample Receipt Checklist (SRC)

Client: SGS   Cooler Inspected by/date: KDRW / 7/17/2021   Lot #: WG17009

Means of receipt: ☐ Pace ☐ Client ☐ UPS ☑ FedEx ☐ Other: ______

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA   Chlorine Strip ID: NA   Tested by: NA

Original temperature upon receipt / Derived (Corrected) temperature upon receipt   %Solid Snap-Cup ID: NA

3.4 / 3.4 °C 3.1 / 3.1 °C 2.4 / 2.4 °C NA / NA °C

Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: 5   IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☐ Yes	☐ No	☑ NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
☑ Yes	☐ No	☐ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC?
☑ Yes	☐ No		7. Were sample IDs listed on all sample containers?
☑ Yes	☐ No		8. Was collection date & time listed on the COC?
☑ Yes	☐ No		9. Was collection date & time listed on all sample containers?
☑ Yes	☐ No		10. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		11. Were tests to be performed listed on the COC?
☑ Yes	☐ No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? ______
☑ Yes	☐ No		13. Was adequate sample volume available?
☐ Yes	☑ No		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☐ Yes	☑ No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
☑ Yes	☐ No	☐ NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	19. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☐ No	☑ NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
☐ Yes	☑ No		21. Was the quote number listed on the container label? If yes, Quote # NA

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA ______ were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA ______. Time of preservation NA ______. If more than one preservative is needed, please note in the comments below.

Sample(s) ALL ______ were received with bubbles >6 mm in diameter.

Samples(s) NA ______ were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: NA ______.

SR barcode labels applied by: KDRW   Date: 7/17/2021

Comments:

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: FA87225
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
3,3-Dimethyl-1-Butanol	624-95-3	SW846 8260B	AQ	Certified by SOP MS005
Tert-Amyl Alcohol	75-85-4	SW846 8260B	AQ	Certified by SOP MS005
Tert-Butyl Formate	762-75-4	SW846 8260B	AQ	Certified by SOP MS005

SGS North America Inc - Orlando

Chain of Custody

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www.sgs.com

FA87225

SGS - ORLANDO JOB #:

PAGE 1 OF 5

SGS - ORLANDO Quote #

SKIFF #

Client / Reporting Information

Company Name: Geological Resources Inc.
Address: 3502 Hayes Rd.
City: Monroe State: NC Zip: 28110
Project Contact: Scott Ball Email:
Phone #: (704) 845 - 4010
Sampler(s) Name(s) (Printed)
Sampler 1: Kyle Perry Sampler 2: Jake Bowers

Project Information

Project Name: Hwy 378 Truck Stop
Street: 731 Hwy 378
City: Edgefield State: SC
Project #: 4422
Fax #: UST Permit # 07960
Client Purchase Order #

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	Total # of Bottles	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnA	DI WATER	MEOH	BTEX, MTBE, naphthalene, 1,2-DCA, 8 oxygenates - 8260	EDB - 8011	LAB USE ONLY
1	07960 - MW-2	7/14/21	1732	KP	GW	5			X							X	X	
2	07960 - MW-3	7/14/21	1349	KP	GW	5			X							X	X	
3	07960 - MW-4	7/13/21	1836	JB	GW	5			X							X	X	
4	07960 - MW-5	7/14/21	0821	KP	GW	5			X							X	X	
5	07960 - MW-6	7/14/21	0839	KP	GW	5			X							X	X	
6	07960 - MW-7	7/14/21	1256	KP	GW	5			X							X	X	
7	07960 - MW-8	7/13/21	1812	JB	GW	5			X							X	X	
8	07960 - MW-9	7/13/21	1717	JB	GW	5			X							X	X	
9	07960 - MW-10	7/13/21	1615	KP	GW	5			X							X	X	
10	07960 - MW-11	7/14/21	1041	KP	GW	5			X							X	X	
11	07960 - MW-12	7/14/21	1029	JB	GW	5			X							X	X	
12	07960 - MW-14	7/13/21	1518	JB	GW	5			X							X	X	

Turnaround Time (Business days)

10 Day (Business)
7 Day
5 Day
3 Day RUSH
2 Day RUSH
1 Day RUSH
Other
Rush T/A Data Available VIA Email or Lablink

Approved By: / Date:

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [x] EDD'S

Comments / Remarks

SC DHEC UST Management Division
UST Permit # 07960

INITIAL ASSESSMENT PM
LABEL VERIFICATION

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Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Kyle Perry	7/14/21 1445	2 FedEx 1009 6379 0308 / 1009 6379 0319 / 1009 6379 0320	3 Fedex	7/15/21	4 [signature] 920
Relinquished by/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
5		6	7		8

Lab Use Only: Cooler Temperature (s) Celsius (corrected): 2.2 IR#1 0.6 4.4

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FA87225: Chain of Custody
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SGS North America Inc - Orlando

Chain of Custody

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FA87225

SGS - ORLANDO JOB #: PAGE 2 OF 5

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: Geological Resources Inc.
Address: 3502 Hayes Rd.
City: Monroe State: NC Zip: 28110
Project Contact: Scott Ball Email:
Phone #: (704) 845-4010
Sampler(s) Name(s) (Printed)
Sampler 1: Kyle Perry Sampler 2: Jase Bowers

Project Information

Project Name: Hwy 378 Truck Stop
Street: 731 Hwy 378
City: Edgefield State: SC
Project #: 4427
~~Fax #~~ UST Permit # 07960
Client Purchase Order #

Analytical Information

Matrix Codes
DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	Date (Collection)	Time (Collection)	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	BTEX, MTBE, naphthalene, 1,2-DCA, oxygenates-8260	EDB - 8011	LAB USE ONLY
13	07960 - mw-15	7/13/21	1457	JB	GW	5			X							X	X	
14	07960 - mw-17	7/13/21	1309	KP	GW	5			X							X	X	
15	07960 - mw-18	7/13/21	1042	JB	GW	5			X							X	X	
16	07960 - mw-19	7/13/21	1154	JB	GW	5			X							X	X	
17	07960 - mw-20	7/13/21	1727	JB	GW	5			X							X	X	
18	07960 - mw-21	7/14/21	0903	KP	GW	5			X							X	X	
19	07960 - mw-22	7/14/21	0946	KP	GW	5			X							X	X	
20	07960 - mw-23	7/13/21	1215	KP	GW	5			X							X	X	
21	07960 - mw-25	7/13/21	1103	KP	GW	5			X							X	X	
22	07960 - mw-27	7/14/21	0922	KP	GW	5			X							X	X	
23	07960 - mw-28	7/13/21	1751	KP	GW	5			X							X	X	
24	07960 - mw-29	7/14/21	1321	KP	GW	5			X							X	X	

Turnaround Time (Business days)

- 10 Day (Business)
- 7 Day
- 5 Day
- 3 Day *RUSH*
- 2 Day *RUSH*
- 1 Day *RUSH*
- Other

Approved By: / Date:

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [x] EDD'S

Comments / Remarks

SC DHEC UST Management Division
UST Permit # 07960

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Kyle Perry	7/14/21 1645	2 FedEx 1009 6379 0508, 1009 6379 0319, 1009 6379 0320	3 Fedex	7/15/21	4 [signature] 920
Relinquished by/Affiliation	**Date Time:**	**Received By/Affiliation**	**Relinquished By/Affiliation**	**Date Time:**	**Received By/Affiliation**
5		6	7		8

Lab Use Only: Cooler Temperature (s) Celsius (corrected): ______

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FA87225: Chain of Custody
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SGS - ORLANDO JOB #:

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SGS - ORLANDO Quote #

SKIFF #

Client / Reporting Information

Company Name: Geological Resources Inc.
Address: 3502 Hayes Rd.
City: Monroe State: NC Zip: 28110
Project Contact: Scott Ball Email:
Phone #: (704) 845-4010
Sampler(s) Name(s) (Printed)
Sampler 1: Kyle Perry Sampler 2: Jase Bowers

Project Information

Project Name: Hwy 378 Truck Stop
Street 731 Hwy 378
City Edgefield State SC
Project # 4422
Fac# UST Permit # 07960
Client Purchase Order #

Analytical Information

SGS Orlando Sample #	Field ID / Point of Collection	Date	Time	Sampled By:	Matrix	Total # of Bottles	Other	None	HC	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	BTEX, MTBE, naphthalene, 1,2-DCA, 8 oxygenates - 8260	EDB - 8011	LAB USE ONLY
25	07960 - MW - 30	7/14/21	1013	KP	GW	5			X							X	X	
26	07960 - TW - 1	7/14/21	1708	KP	GW	5			X							X	X	
27	07960 - TW - 2	7/14/21	1136	KP	GW	5			X							X	X	
28	07960 - TW - 3	7/13/21	1656	JB	GW	5			X							X	X	
29	07960 - TW - 4	7/13/21	1554	JB	GW	5			X							X	X	
30	07960 - TW - 5	7/13/21	1436	KP	GW	5			X							X	X	
31	07960 - TW - 7	7/13/21	1248	JB	GW	5			X							X	X	
32	07960 - TW - 8	7/13/21	1133	JB	GW	5			X							X	X	
33	07960 - TW - 11	7/13/21	1018	KP	GW	5			X							X	X	
34	07960 - DUP - A	7/14/21	1200	KP	GW	5			X							X	X	
35	07960 - DUP - B	7/14/21	1201	KP	GW	5			X							X	X	
36	07960 - FB - 1	7/15/21	1300	KP	WW	5			X							X	X	

Matrix Codes
DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid

Turnaround Time (Business days)

10 Day (Business)
7 Day
5 Day
3 Day RUSH
2 Day RUSH
1 Day RUSH
Other
Rush T/A Data Available VIA Email or Lablink

Approved By: / Date:

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [x] EDD'S

Comments / Remarks

SC DHEC UST Management Division
UST Permit # 07960

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Kyle Perry	7/14/21 1645	2 FedEx 1009 6379 0308 1009 6379 0319 1009 6379 0320	3 Fedex	7/15/21	4 [illegible] 920
Relinquished by/Affiliation	**Date Time:**	**Received By/Affiliation**	**Relinquished By/Affiliation**	**Date Time:**	**Received By/Affiliation**
5		6	7		8

Lab Use Only: Cooler Temperature (s) Celsius (corrected):

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FA87225: Chain of Custody
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www.sgs.com

FA87225

SGS - ORLANDO JOB #: PAGE 4 OF 5

SGS - ORLANDO Quote #	SKIFF #

Client / Reporting Information		Project Information	
Company Name:	Geological Resources Inc.	Project Name:	Hwy 378 Truck Stop
Address:	3502 Hayes Rd.	Street	731 Hwy 378
City:	Monroe State: NC Zip: 28110	City	Edgefield State SC
Project Contact:	Scott Bull Email:	Project #	4427
Phone #:	(704) 845-4010	Fax #	UST Permit #07960
Sampler(s) Name(s) (Printed)	Sampler 1: Kyle Perry Sampler 2: Jase Bowers	Client Purchase Order #	

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NAOH+ZNAC	DI WATER	MEOH	BTEX, MTBE, naphthalene, 1,2-DCA, 8oxygenates-8260	EDB - 8011	BTEX, MTBE, naphthalene, 1,2-DCA-524.2	8 oxygenates - 8260	EDB - 504.1	LAB USE ONLY
37	07960 - FB-2	7/14/21	1301	KP	WW	5			X							X	X				
38	07960 - TB	7/13/21	0745	KP	WW	2			X							X					
39	07960 - WSW-2	7/12/21	1646	JB	DW	9	3		6									X	X	X	
40	07960 - WSW-4	7/12/21	1625	JB	DW	9	3		6									X	X	X	
41	07960 - WSW-5	7/12/21	1604	KP	DW	9	3		6									X	X	X	
42	07960 - WSW-6	7/12/21	1543	KP	DW	9	3		6									X	X	X	
43	07960 - WSW-7	7/12/21	1847	JB	DW	9	3		6									X	X	X	
44	07960 - WSW-8	7/12/21	1832	KP	DW	9	3		6									X	X	X	
45	07960 - WSW-9	7/12/21	1817	JB	DW	9	3		6									X	X	X	
46	07960 - WSW-10	7/12/21	1802	KP	DW	9	3		6									X	X	X	
47	07960 - WSW-11	7/12/21	1751	KP	DW	9	3		6									X	X	X	
48	07960 - WSW-12	7/12/21	1746	JB	DW	9	3		6									X	X	X	

Turnaround Time (Business days)

- 10 Day (Business) (circled)
- 7 Day
- 5 Day
- 3 Day RUSH
- 2 Day RUSH
- 1 Day RUSH
- Other

Approved By: / Date:

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULLT1 (EPA LEVEL 4)
- [x] EDD'S

Comments / Remarks

SC DHEC UST Management Division

UST Permit # 07960

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Kyle Perry	7/14/21 1645	2 Fed Ex 1009 6379 0308 1009 6379 0319 1009 6379 0320	3 Fedex	7/15/21	4 [signature] 920
Relinquished by/Affiliation	**Date Time:**	**Received By/Affiliation**	**Relinquished By/Affiliation**	**Date Time:**	**Received By/Affiliation**
5		6	7		8

Lab Use Only: Cooler Temperature (s) Celsius (corrected):

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FA87225

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SGS - ORLANDO JOB #: PAGE 5 OF 5

SGS - ORLANDO Quote # | SKIFF #

Client / Reporting Information

Company Name: Geological Resources Inc.
Address: 3502 Hayes Rd.
City: Monroe State: NC Zip: 28110
Project Contact: Scott Ball Email:
Phone #: (704) 845-4010
Sampler(s) Name(s) (Printed)
Sampler 1: Kyle Perry Sampler 2: Jase Bowers

Project Information

Project Name: Hwy 378 Truck Stop
Street: 31 Hwy 378
City: Edgefield State: SC
Project #: 4422
Fax #: UST Permit # 07960
Client Purchase Order #

Analytical Information: BTEX, MTBE, Naphthalene, 1,2-DCA - 524.2 | Oxygenates - 8260 | EDB - 504.1

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid

SGS Orlando Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Total # of Bottles	Other	None	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI Water	MeOH	BTEX, MTBE, Naphthalene, 1,2-DCA - 524.2	Oxygenates - 8260	EDB - 504.1	LAB USE ONLY
49	07960 - WSW - 14	7/12/21	1718	JB	DW	9	3		6							X	X	X	
50	07960 - WSW - 15	7/12/21	1707	JB	DW	9	3		6							X	X	X	
51	07960 - WSW - X	7/12/21	1522	KP	DW	9	3		6							X	X	X	
52	07960 - DUP - C	7/12/21	1530	KP	DW	9	3		6							X	X	X	
53	07960 - WSW - FB	7/12/21	1500	KP	WW	9	3		6							X	X	X	
54	07960 - WSW - TB	7/12/21	0900	KP	WW	4			X							X	X		

Turnaround Time (Business days)

- 10 Day (Business)
- 7 Day
- 5 Day
- 3 Day *RUSH*
- 2 Day *RUSH*
- 1 Day *RUSH*
- Other

Approved By: / Date:

Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☒ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULLT1 (EPA LEVEL 4)
- ☒ EDD'S

Comments / Remarks

SC DHEC UST Management Division
UST Permit # 07960

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler/Affiliation	Date Time:	Received By/Affiliation	Relinquished By/Affiliation	Date Time:	Received By/Affiliation
1 Kyle Perry	7/14/21 1645	2 FedEx 1009 6379 0308 1009 6379 0319 1009 6379 0320	3 Fedex	7/15/21	4 [signature] 920
Relinquished by/Affiliation	**Date Time:**	**Received By/Affiliation**	**Relinquished By/Affiliation**	**Date Time:**	**Received By/Affiliation**
5		6	7		8

Lab Use Only: Cooler Temperature (s) Celsius (corrected):

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FA87225: Chain of Custody
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SGS Sample Receipt Summary

Job Number: FA87225 **Client:** GEOLOGICAL RESOURCES **Project:** HWY 378 TRUCK STOP

Date / Time Received: 7/15/2021 9:20:00 AM **Delivery Method:** FEDEX **Airbill #'s:** 100963790308

Therm ID: IR 1; **Therm CF:** 0.2; **# of Coolers:** 3

Cooler Temps (Raw Measured) °C: Cooler 1: (2.2); Cooler 2: (0.6); Cooler 3: (4.4);

Cooler Temps (Corrected) °C: Cooler 1: (2.4); Cooler 2: (0.8); Cooler 3: (4.6);

Cooler Information	Y	N
1. Custody Seals Present	☑	☐
2. Custody Seals Intact	☑	☐
3. Temp criteria achieved	☑	☐
4. Cooler temp verification	IR Gun	
5. Cooler media	Ice (Bag)	

Trip Blank Information	Y	N	N/A
1. Trip Blank present / cooler	☑	☐	☐
2. Trip Blank listed on COC	☑	☐	☐
	W	**S**	**N/A**
3. Type Of TB Received	☑	☐	☐

Sample Information	Y	N	N/A
1. Sample labels present on bottles	☑	☐	
2. Samples preserved properly	☑	☐	
3. Sufficient volume/containers recvd for analysis:	☑	☐	
4. Condition of sample	Intact		
5. Sample recvd within HT	☑	☐	
6. Dates/Times/IDs on COC match Sample Label	☑	☐	
7. VOCs have headspace	☑	☐	☐
8. Bottles received for unspecified tests	☐	☑	
9. Compositing instructions clear	☐	☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐	☐	☑
11. % Solids Jar received?	☐	☐	☑
12. Residual Chlorine Present?	☐	☐	☑

Misc. Information

Number of Encores: 25-Gram ______ 5-Gram ______ Number of 5035 Field Kits: ______ Number of Lab Filtered Metals: ______

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) ______

Residual Chlorine Test Strip Lot #: ______

Comments SAMPLES 11,28,48,49,50 RECEIVED 1 VIAL WITH HEADSPACE.
SAMPLES 18,38 RECEIVED 2 VIALS WITH HEADSPACE.
SAMPLE 40 RECEIVED 5 VIALS WITH HEADSPACE.
SAMPEL 53 RECEIVED 3 VIALS WITH HEADSPACE.
SAMPLE 54 RECEIVED ALL VIALS WITH HEADSPACE.

SAMPLE #14 ID:"07960-MW-14" WAS RECEIVED WITH ONE VIAL BROKEN.

Technician: BRYANG Date: 7/15/2021 9:20:00 AM Reviewer: ______ Date: ______

SM001
Rev. Date 05/24/17

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FA87225: Chain of Custody
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CSR: Muna Mohammed

Response Date: 7/16/21

Response: Client has been notified

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SM001
Rev. Date 05/24/17

FA87225: Chain of Custody
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MS Volatiles

QC Data Summaries

Includes the following where applicable:

- **Method Blank Summaries**
- **Blank Spike Summaries**
- **Matrix Spike and Duplicate Summaries**

Method Blank Summary

Job Number: FA87225
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3253-MB	P80157.D	1	07/23/21	LR	n/a	n/a	VP3253

The QC reported here applies to the following samples: Method: SW846 8260D

FA87225-1, FA87225-2, FA87225-4, FA87225-5, FA87225-6, FA87225-10, FA87225-11, FA87225-18, FA87225-19, FA87225-22, FA87225-24, FA87225-26, FA87225-27, FA87225-34

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Method Blank Summary

Job Number: FA87225
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2525-MB	O64530.D	1	07/26/21	CG	n/a	n/a	VO2525

The QC reported here applies to the following samples: Method: SW846 8260D

FA87225-11, FA87225-25, FA87225-26, FA87225-38

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	91%	83-118%

Method Blank Summary

Job Number: FA87225
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2527-MB	O64548.D	1	07/27/21	CG	n/a	n/a	VO2527

The QC reported here applies to the following samples: Method: SW846 8260D

FA87225-24, FA87225-35, FA87225-37

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	97%	85-112%
460-00-4	4-Bromofluorobenzene	95%	83-118%

Method Blank Summary

Job Number: FA87225
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI2256-MB	I69834.D	1	07/22/21	LR	n/a	n/a	VI2256

The QC reported here applies to the following samples: Method: SW846 8260B

FA87225-3, FA87225-7, FA87225-8, FA87225-9, FA87225-12, FA87225-13, FA87225-14, FA87225-15, FA87225-16, FA87225-17, FA87225-20, FA87225-21, FA87225-23, FA87225-28, FA87225-29, FA87225-30, FA87225-31, FA87225-32, FA87225-33, FA87225-36

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.31	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.24	ug/l	
624-95-3	3,3-Dimethyl-1-Butanol	ND	50	10	ug/l	
64-17-5	Ethyl Alcohol	ND	200	82	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.36	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	5.3	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.24	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	5.3	ug/l	
762-75-4	Tert-Butyl Formate	ND	20	5.0	ug/l	
108-88-3	Toluene	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.72	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	94%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

Blank Spike Summary

Job Number: FA87225
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VP3253-BS	P80154.D	1	07/23/21	LR	n/a	n/a	VP3253

The QC reported here applies to the following samples: Method: SW846 8260D

FA87225-1, FA87225-2, FA87225-4, FA87225-5, FA87225-6, FA87225-10, FA87225-11, FA87225-18, FA87225-19, FA87225-22, FA87225-24, FA87225-26, FA87225-27, FA87225-34

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.5	102	81-122
107-06-2	1,2-Dichloroethane	25	23.7	95	75-125
108-20-3	Di-Isopropyl Ether	25	22.4	90	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1300	104	55-126
64-17-5	Ethyl Alcohol	500	389	78	46-145
100-41-4	Ethylbenzene	25	23.2	93	81-121
637-92-3	Ethyl Tert Butyl Ether	25	19.4	78	71-120
1634-04-4	Methyl Tert Butyl Ether	25	22.1	88	72-117
91-20-3	Naphthalene	25	22.4	90	63-132
75-85-4	Tert-Amyl Alcohol	250	222	89	65-124
994-05-8	Tert-Amyl Methyl Ether	25	19.9	80	73-122
75-65-0	Tert-Butyl Alcohol	250	219	88	63-129
762-75-4	Tert-Butyl Formate	125	81.0	65	46-130
108-88-3	Toluene	25	22.5	90	80-120
1330-20-7	Xylene (total)	75	71.4	95	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA87225
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2525-BS [a]	O64528.D	1	07/26/21	CG	n/a	n/a	VO2525

The QC reported here applies to the following samples: Method: SW846 8260D

FA87225-11, FA87225-25, FA87225-26, FA87225-38

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.1	100	81-122
107-06-2	1,2-Dichloroethane	25	23.2	93	75-125
108-20-3	Di-Isopropyl Ether	25	24.4	98	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1040	83	55-126
64-17-5	Ethyl Alcohol	500	572	114	46-145
100-41-4	Ethylbenzene	25	23.8	95	81-121
637-92-3	Ethyl Tert Butyl Ether	25	21.3	85	71-120
1634-04-4	Methyl Tert Butyl Ether	25	22.7	91	72-117
91-20-3	Naphthalene	25	22.6	90	63-132
75-85-4	Tert-Amyl Alcohol	250	197	79	65-124
994-05-8	Tert-Amyl Methyl Ether	25	20.9	84	73-122
75-65-0	Tert-Butyl Alcohol	250	222	89	63-129
762-75-4	Tert-Butyl Formate	125	212	170*	46-130
108-88-3	Toluene	25	22.4	90	80-120
1330-20-7	Xylene (total)	75	73.4	98	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	96%	85-112%
460-00-4	4-Bromofluorobenzene	109%	83-118%

(a) No MS/MSD available for this run.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA87225
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO2527-BS	O64546.D	1	07/27/21	CG	n/a	n/a	VO2527

The QC reported here applies to the following samples: Method: SW846 8260D

FA87225-24, FA87225-35, FA87225-37

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.1	100	81-122
107-06-2	1,2-Dichloroethane	25	23.5	94	75-125
108-20-3	Di-Isopropyl Ether	25	24.6	98	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1240	99	55-126
64-17-5	Ethyl Alcohol	500	451	90	46-145
100-41-4	Ethylbenzene	25	24.6	98	81-121
637-92-3	Ethyl Tert Butyl Ether	25	21.7	87	71-120
1634-04-4	Methyl Tert Butyl Ether	25	22.5	90	72-117
91-20-3	Naphthalene	25	25.0	100	63-132
75-85-4	Tert-Amyl Alcohol	250	237	95	65-124
994-05-8	Tert-Amyl Methyl Ether	25	21.4	86	73-122
75-65-0	Tert-Butyl Alcohol	250	215	86	63-129
762-75-4	Tert-Butyl Formate	125	227	182*	46-130
108-88-3	Toluene	25	23.6	94	80-120
1330-20-7	Xylene (total)	75	75.2	100	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	115%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA87225
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI2256-BS	I69832.D	1	07/22/21	LR	n/a	n/a	VI2256

The QC reported here applies to the following samples: Method: SW846 8260B

FA87225-3, FA87225-7, FA87225-8, FA87225-9, FA87225-12, FA87225-13, FA87225-14, FA87225-15, FA87225-16, FA87225-17, FA87225-20, FA87225-21, FA87225-23, FA87225-28, FA87225-29, FA87225-30, FA87225-31, FA87225-32, FA87225-33, FA87225-36

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	26.1	104	81-122
107-06-2	1,2-Dichloroethane	25	25.0	100	75-125
108-20-3	Di-Isopropyl Ether	25	23.8	95	68-123
624-95-3	3,3-Dimethyl-1-Butanol	1250	1230	98	55-126
64-17-5	Ethyl Alcohol	500	443	89	46-145
100-41-4	Ethylbenzene	25	25.1	100	81-121
637-92-3	Ethyl Tert Butyl Ether	25	21.3	85	71-120
1634-04-4	Methyl Tert Butyl Ether	25	23.0	92	72-117
91-20-3	Naphthalene	25	22.6	90	63-132
75-85-4	Tert-Amyl Alcohol	250	223	89	65-124
994-05-8	Tert-Amyl Methyl Ether	25	20.9	84	73-122
75-65-0	Tert-Butyl Alcohol	250	219	88	63-129
762-75-4	Tert-Butyl Formate	125	111	89	46-130
108-88-3	Toluene	25	23.9	96	80-120
1330-20-7	Xylene (total)	75	76.6	102	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	97%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA87225
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA87225-2MS	P80178.D	100	07/24/21	LR	n/a	n/a	VP3253
FA87225-2MSD	P80179.D	100	07/24/21	LR	n/a	n/a	VP3253
FA87225-2	P80162.D	100	07/23/21	LR	n/a	n/a	VP3253

The QC reported here applies to the following samples: Method: SW846 8260D

FA87225-1, FA87225-2, FA87225-4, FA87225-5, FA87225-6, FA87225-10, FA87225-11, FA87225-18, FA87225-19, FA87225-22, FA87225-24, FA87225-26, FA87225-27, FA87225-34

CAS No.	Compound	FA87225-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	5940		2500	8480	102	2500	8420	99	1	81-122/14
107-06-2	1,2-Dichloroethane	412		2500	2630	89	2500	2680	91	2	75-125/14
108-20-3	Di-Isopropyl Ether	ND		2500	2090	84	2500	2160	86	3	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		125000	110000	88	125000	107000	86	3	55-126/17
64-17-5	Ethyl Alcohol	ND		50000	35200	70	50000	36800	74	4	46-145/30
100-41-4	Ethylbenzene	667		2500	2950	91	2500	2970	92	1	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		2500	1830	73	2500	1840	74	1	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		2500	2020	81	2500	2100	84	4	72-117/14
91-20-3	Naphthalene	304	J	2500	2460	86	2500	2550	90	4	63-132/25
75-85-4	Tert-Amyl Alcohol	9500		25000	31500	88	25000	32500	92	3	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		2500	1820	73	2500	1890	76	4	73-122/13
75-65-0	Tert-Butyl Alcohol	1390	J	25000	21500	80	25000	22100	83	3	63-129/27
762-75-4	Tert-Butyl Formate	ND		12500	6580	53	12500	6550	52	0	46-130/33
108-88-3	Toluene	58.6	J	2500	2220	86	2500	2250	88	1	80-120/14
1330-20-7	Xylene (total)	1580		7500	8560	93	7500	8570	93	0	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA87225-2	Limits
1868-53-7	Dibromofluoromethane	100%	99%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	103%	102%	79-125%
2037-26-5	Toluene-D8	99%	99%	100%	85-112%
460-00-4	4-Bromofluorobenzene	101%	100%	100%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA87225
Account: GRINCC GRI (Geological Resources Inc.)
Project: 378 Truck Stop; 731 Hwy 378, Edgefield, SC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA87225-9MS	I69855.D	5	07/22/21	LR	n/a	n/a	VI2256
FA87225-9MSD	I69856.D	5	07/22/21	LR	n/a	n/a	VI2256
FA87225-9	I69839.D	1	07/22/21	LR	n/a	n/a	VI2256

The QC reported here applies to the following samples: Method: SW846 8260B

FA87225-3, FA87225-7, FA87225-8, FA87225-9, FA87225-12, FA87225-13, FA87225-14, FA87225-15, FA87225-16, FA87225-17, FA87225-20, FA87225-21, FA87225-23, FA87225-28, FA87225-29, FA87225-30, FA87225-31, FA87225-32, FA87225-33, FA87225-36

CAS No.	Compound	FA87225-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		125	140	112	125	129	103	8	81-122/14
107-06-2	1,2-Dichloroethane	ND		125	132	106	125	121	97	9	75-125/14
108-20-3	Di-Isopropyl Ether	ND		125	123	98	125	114	91	8	68-123/16
624-95-3	3,3-Dimethyl-1-Butanol	ND		6250	5890	94	6250	5800	93	2	55-126/17
64-17-5	Ethyl Alcohol	ND		2500	1810	72	2500	1680	67	7	46-145/30
100-41-4	Ethylbenzene	ND		125	130	104	125	119	95	9	81-121/14
637-92-3	Ethyl Tert Butyl Ether	ND		125	109	87	125	101	81	8	71-120/14
1634-04-4	Methyl Tert Butyl Ether	ND		125	117	94	125	109	87	7	72-117/14
91-20-3	Naphthalene	ND		125	111	89	125	103	82	7	63-132/25
75-85-4	Tert-Amyl Alcohol	ND		1250	1180	94	1250	1080	86	9	65-124/23
994-05-8	Tert-Amyl Methyl Ether	ND		125	110	88	125	102	82	8	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		1250	1190	95	1250	1120	90	6	63-129/27
762-75-4	Tert-Butyl Formate	ND		625	398	64	625	392	63	2	46-130/33
108-88-3	Toluene	ND		125	122	98	125	112	90	9	80-120/14
1330-20-7	Xylene (total)	ND		375	393	105	375	361	96	8	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA87225-9	Limits
1868-53-7	Dibromofluoromethane	102%	102%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	98%	100%	79-125%
2037-26-5	Toluene-D8	95%	95%	93%	85-112%
460-00-4	4-Bromofluorobenzene	96%	96%	98%	83-118%

* = Outside of Control Limits.

APPENDIX B

Field Data Information Sheets

Underground Storage Tank Management Division
Field Data Information Sheet – Monitoring Well Gauging

Site Information

Date: 07/12/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop
County: Edgefield	Project Manager: Sawyer Hipp	Field Personnel: Kyle P. / Jase B

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
mw-1	NF	unknown	–	–	–	–	–	–	–	NF
mw-2	40.07	10 – 40 ~~unknown~~	–	14.74	–	y	N	cracked	0/2	N
mw-3	43.75	10 - 40	–	14.92	–	y	n	buried	0/2	y
mw-4	39.47	10 - 40	–	12.92	–	y	n	Cracked	0/2	n
mw-5	39.74	20 - 40	–	19.08	–	y	N	y	2/2	y
mw-6	35.07	20 - 35	–	16.09	–	y	N	y	0/2	N
mw-7	34.97	20 - 35	–	12.13	–	n	N	cracked	1/2	y
mw-8	35.10	20 - 35	–	12.12	–	y	N	cracked	0/2	N
mw-9	35.21	20 - 35	–	14.15	–	y	N	y	2/2	n
mw-10	40.20	25 - 40	–	17.53	–	y	n	y	1/2	n
mw-11	35.29	20 - 35	–	16.27	–	y	n	y	0/2	n
mw-12	35.00	20 - 35	–	16.76	–	y	n	y	0/2	n
mw-13	NF	~~20~~ 25-40	–	–	–	–	–	–	–	NF

Notes: mw-1 + mw-13 = not found / mw-2 = well tag found - screened interval = 10 - 40 /

Signature: [signature]

DHEC 0424 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Monitoring Well Gauging

Site Information

Date: 07/12/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop
County: Edgefield	Project Manager: Sawyer Hipp	Field Personnel: Kyle P. / Jase B.

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
mw-14	39.80	25-40	–	19.18	–	y	n	y	2/2	n
mw-15	~~40~~.13	25-40	–	17.27	–	y	N	~~NP~~ y	2/2	y
mw-16	NF	25-40	–	–	–	–	–	–	–	NF
mw-17	35.05	20-~~40~~35	–	12.07	–	y	n	buried	2/2	n
mw-18	35.71	20-35	–	9.25	–	y	N	buried	2/2	N
mw-19	38.60	24-39	–	16.77	–	y	n	y	2/2	n
mw-20	45.11	30-45	–	35.32	–	y	N	y	Stickup well	
mw-21	40.20	25-40	–	14.03	–	y	N	buried	1/2	y
mw-22	40.12	25-40	–	20.13	–	y	n	y	1/2	y
mw-23	37.27	22-37	–	15.02	–	y	n	~~gw~~ y	0/2	n
mw-24	NF	25-40	–	–	–	–	–	–	–	NF
mw-25	40.07	25-40	–	18.23	–	y	n	buried	2/2	y
mw-26	NF	24-39	–	–	–	–	–	–	–	NF

Notes: mw-16, mw-24, + mw-26 = not Found

Signature: Kyle P[illegible]

DHEC 0424 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Underground Storage Tank Management Division
Field Data Information Sheet – Monitoring Well Gauging

Site Information

Date: 07/12/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop
County: Edgefield	Project Manager: Sawyer Hipp	Field Personnel: Kyle P. / Jase B

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
mw-27	35.10	20-35	—	16.03	—	y	n	y	0/2	y
mw-28	40.03	25-40	—	12.87	—	y	N	y	0/2	y
mw-29	40.17	25-40	—	13.89	—	y	n	Cracked	0/2	n
mw-30	45.05	30-45	—	18.43	—	y	n	y	2/2	n
mw-31	NF	29-44	—	—	—	—	—	—	—	NF
TW-1	63.31	58-63	—	16.08	—	y	N	buried	1/2	N
TW-2	77.78	75-80	—	14.39	—	y	N	cracked	2/2	y
TW-3	80.69	75-80	—	11.06	—	y	n	y	2/2	n
TW-4	68.62	64-69	—	17.57	—	y	n	y	2/2	n
TW-5	58.13	54-59	—	16.62	—	y	n	y	2/2	y
TW-6	NF	54-59	—	~~[illegible]~~	—	~~y~~	~~n~~	~~y~~	~~[illegible]~~	~~y~~ NF
TW-7	59.01	54-59	—	9.43	—	y	N	buried	2/2	y
TW-8	58.59	54-59	—	11.33	—	y	N	y	2/2	y

Notes: mw-31 + TW-6 = not found/

Signature: [signature]

DHEC 0424 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Monitoring Well Gauging

Site Information

Date: 07/12/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop
County: Edgefield	Project Manager: Sawyer Hipp	Field Personnel: Kyle P. / Jase B

Well Gauging Information

Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?
TW-9	NF	75-80	–	–	–	–	–	–	–	NF
TW-10	NF	60-65	–	–	–	–	–	–	–	NF
TW-11	59.34	55-60	–	7.98	–	y	N	y	2/2	y
RW-1	29.15	19-29	–	9.12	–	y	N	y	2/2	y

Notes: TW-9 + TW-10 = not found / RW-1 = well not on map - ~~PM~~ PM instructed me to gauge it for FP, but not to sample it.

Signature: [signature]

DHEC 0424 (10/2012)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/12/2021 | Site ID #: 07960 | Site Name: Hwy 378 Truck Stop | Field Personnel: Kyle P. / Jase B.

County: Edgefield | Project Manager: Sawyer Hipp | General Weather Conditions: Sunny/cloudy | Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-1 | Well Diameter (ft.): 2" | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: X Bailer ___Pump

X MW ___IW ___RW ___Other_______ ___Private WSW ___Public WSW | Screened Interval (ft.): ~~to~~ unknown | Total Well Depth (TWD) (ft.):

Depth to Free Product (DFP) (ft.): – | Depth to Groundwater (DGW) (ft.): | Free Product Thickness (ft.): –

Length of water column (LWC=TWD-DGW)(ft.): | 1 casing volume (CV=LWC*C)(gals): | 3 casing volumes 3*CV)(gals): | 5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Kyle Perry | Sampling Time: | Duplicate: Y or N | If yes, Duplicate Time:

Notes: Not Found

Signature: Kyle Perry

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/ 14 /2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: KyleP. / JaseB.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (ºF): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-2	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other_______ ___Private WSW ___Public WSW	Screened Interval (ft.): 10 - 40 ~~unknown~~		Total Well Depth (TWD) (ft.): 40.07
Depth to Free Product (DFP) (ft.): -	Depth to Groundwater (DGW) (ft.): 14.74		Free Product Thickness (ft.): -
Length of water column (LWC=TWD-DGW)(ft.): 25.33	1 casing volume (CV=LWC*C)(gals): 4.0	3 casing volumes 3*CV)(gals): 12.0	5 casing volumes (5*CV)(gals): -

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	4.0	8.0	12.0				
Time (military)	1209	1216	1223	1231				
PH (s.u.)	7.14	7.10	7.07	7.17				
Specific Conductivity (µS/cm)	245.0	258.0	294.0	317.0				
Water Temperature (ºC)	22.07	22.45	21.99	23.49				
Turbidity (NTU)	151.5	624.1	1000+	1000+				
Dissolved Oxygen (mg/L)	6.92	8.11	9.67	6.73				

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1232	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Historically Hot!

Signature: Kyle Perry

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/14/2021 | Site ID #: 07960 | Site Name: Hwy 378 Truck Stop | Field Personnel: Kyle P. / Jase B.

County: Edgefield | Project Manager: Sawyer Hipp | General Weather Conditions: Sunny/cloudy | Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-3 | Well Diameter (ft.): 2" | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: X Bailer ___ Pump

X MW ___ IW ___ RW ___ Other_____ ___ Private WSW ___ Public WSW | Screened Interval (ft.): 10 to 40 | Total Well Depth (TWD) (ft.): 43.75

Depth to Free Product (DFP) (ft.): – | Depth to Groundwater (DGW) (ft.): 14.92 | Free Product Thickness (ft.): –

Length of water column (LWC=TWD-DGW)(ft.): 28.83 | 1 casing volume (CV=LWC*C)(gals): 4.50 | 3 casing volumes 3*CV)(gals): 13.50 | 5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	4.50	9.0	13.50				
Time (military)	1324	1332	1340	1348				
PH (s.u.)	6.78	6.75	6.78	6.81				
Specific Conductivity (µS/cm)	432.0	455.0	484.0	502.0				
Water Temperature (°C)	23.04	23.33	22.54	23.40				
Turbidity (NTU)	62.1	199.5	257.4	259.6				
Dissolved Oxygen (mg/L)	11.20	10.91	10.75	11.64				

Sampling Data

Sampled By: Kyle Perry | Sampling Time: 1349 | Duplicate: Y or N | If yes, Duplicate Time:

Notes: Historically Hot!

Signature: Kyle Perry

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-4

Well Diameter (ft.): 2"

Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652

Method of Purging/Sample Collection: X Bailer ___Pump

X MW ___IW ___RW ___Other_______ ___Private WSW ___Public WSW

Screened Interval (ft.): 10 to 40

Total Well Depth (TWD) (ft.): 39.47

Depth to Free Product (DFP) (ft.): –

Depth to Groundwater (DGW) (ft.): 12.92

Free Product Thickness (ft.): –

Length of water column (LWC=TWD-DGW)(ft.): 26.55

1 casing volume (CV=LWC*C)(gals): 4.25

3 casing volumes (3*CV)(gals): 12.75

5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	4.25	8.50	12.75				
Time (military)	1814	1820	1828	1835				
PH (s.u.)	6.77	6.68	6.68	6.59				
Specific Conductivity (µS/cm)	441.0	454.0	454.0	415.0				
Water Temperature (°C)	24.55	22.74	23.06	22.70				
Turbidity (NTU)	1000+	509.6	340.1	1000+				
Dissolved Oxygen (mg/L)	13.24	12.47	9.42	8.70				

Sampling Data

Sampled By: Kyle Perry

Sampling Time: 1836

Duplicate: Y or N

If yes, Duplicate Time:

Notes: ____________________

Signature: Kyle Perry

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/14/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-5	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other_______ ___Private WSW ___Public WSW		Screened Interval (ft.): 20 to 40	Total Well Depth (TWD) (ft.): 39.74
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 19.08		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 20.66	1 casing volume (CV=LWC*C)(gals): 3.25	3 casing volumes 3*CV)(gals): 9.75	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.25	6.50	9.75				
Time (military)	0819	0824	0820					
PH (s.u.)	6.77	6.65	6.57					
Specific Conductivity (µS/cm)	739.0	674.0	683.0					
Water Temperature (°C)	24.01	20.51	20.67					
Turbidity (NTU)	287.9	166.7	114.2					
Dissolved Oxygen (mg/L)	9.90	13.27	9.49					

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 0821	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ 2nd Volume.

Signature: Kyle Perry

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/14/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (ºF): 70-90'

Quality Assurance

Meter Name		Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)		11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen)	YSI 556		Y or N			
~~LaMotte~~ (Turbidity)	Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-6	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other_____ ___Private WSW ___Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35.07
Depth to Free Product (DFP) (ft.): -	Depth to Groundwater (DGW) (ft.): 16.09		Free Product Thickness (ft.): -
Length of water column (LWC=TWD-DGW)(ft.): 18.98	1 casing volume (CV=LWC*C)(gals): 3.0	3 casing volumes 3*CV)(gals): 9.0	5 casing volumes (5*CV)(gals): -

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.0	6.0	9.0				
Time (military)	0832	0839						
PH (s.u.)	7.19	6.80						
Specific Conductivity (µS/cm)	140.0	126.0						
Water Temperature (ºC)	23.85	20.22						
Turbidity (NTU)	465.0	1000+						
Dissolved Oxygen (mg/L)	11.48	13.37						

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 0839	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ 4.75 gal. Limited Volume.

Signature: Kyle Perry

DHEC 0423 (10/2015) SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/14/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (ºF): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI~~ 63 (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-7	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 34.97
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 12.13		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 22.84	1 casing volume (CV=LWC*C)(gals): 3.75	3 casing volumes 3*CV)(gals): 11.25	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.75	7.50	11.25				
Time (military)	1248	1255						
PH (s.u.)	6.83	7.06						
Specific Conductivity (µS/cm)	1730	2060						
Water Temperature (ºC)	23.75	23.23						
Turbidity (NTU)	94.5	446.1						
Dissolved Oxygen (mg/L)	78.44	20.05						

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1256	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Historically Hot!
Dry @ 6.0 gal. Limited Volume

Signature: Kyle Perry

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021 | Site ID #: 07960 | Site Name: Hwy 378 Truck Stop | Field Personnel: Kyle P. / Jase B.

County: Edgefield | Project Manager: Sawyer Hipp | General Weather Conditions: Sunny/cloudy | Ambient Air Temp (ºF): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-8 | Well Diameter (ft.): 2" | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: X Bailer ___Pump

X MW __IW __RW __Other____ __Private WSW __Public WSW | Screened Interval (ft.): 20 to 35 | Total Well Depth (TWD) (ft.): 35.10

Depth to Free Product (DFP) (ft.): – | Depth to Groundwater (DGW) (ft.): 12.12 | Free Product Thickness (ft.): –

Length of water column (LWC=TWD-DGW)(ft.): 22.98 | 1 casing volume (CV=LWC*C)(gals): 3.75 | 3 casing volumes 3*CV)(gals): 11.25 | 5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.75	7.50	11.25				
Time (military)	1805	1811						
PH (s.u.)	6.78	6.73						
Specific Conductivity (µS/cm)	522.0	529.0						
Water Temperature (ºC)	23.60	22.42						
Turbidity (NTU)	1000+	264.5						
Dissolved Oxygen (mg/L)	10.75	10.56						

Sampling Data

Sampled By: Kyle Perry | Sampling Time: 1812 | Duplicate: Y or N | If yes, Duplicate Time:

Notes: Dry @ 6.50 gal. Limited Volume.

Signature: Kyle Perry

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: KyleP. / JaseB.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (ºF): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-9	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 70 to 35	Total Well Depth (TWD) (ft.): 35.21
Depth to Free Product (DFP) (ft.): -	Depth to Groundwater (DGW) (ft.): 14.15		Free Product Thickness (ft.): -
Length of water column (LWC=TWD-DGW)(ft.): 21.06	1 casing volume (CV=LWC*C)(gals): 3.25	3 casing volumes 3*CV)(gals): 9.75	5 casing volumes (5*CV)(gals): -

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.25	6.50	9.75				
Time (military)	1703	1709	1716					
PH (s.u.)	9.01	8.53	8.09					
Specific Conductivity (µS/cm)	759.0	724.0	760.0					
Water Temperature (ºC)	22.05	21.21	20.56					
Turbidity (NTU)	1000+	176.0	1000+					
Dissolved Oxygen (mg/L)	13.77	13.34	12.88					

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1717	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ 7.0 gal-Limited Volume.

Signature: Kyle Perry

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021 | Site ID #: 07960 | Site Name: Hwy 378 Truck Stop | Field Personnel: Kyle P. / Jase B.

County: Edgefield | Project Manager: Sawyer Hipp | General Weather Conditions: Sunny/cloudy | Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-10 | Well Diameter (ft.): 2" | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: X Bailer ___Pump

X MW ___IW ___RW ___Other________ ___Private WSW ___Public WSW | Screened Interval (ft.): 25 to 40 | Total Well Depth (TWD) (ft.): 46.20

Depth to Free Product (DFP) (ft.): – | Depth to Groundwater (DGW) (ft.): 17.53 | Free Product Thickness (ft.): –

Length of water column (LWC=TWD-DGW)(ft.): 22.67 | 1 casing volume (CV=LWC*C)(gals): 3.75 | 3 casing volumes 3*CV)(gals): 11.25 | 5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.75	7.50	11.25				
Time (military)	1608	1614						
PH (s.u.)	8.10	7.78						
Specific Conductivity (µS/cm)	190.0	182.0						
Water Temperature (°C)	21.29	19.77						
Turbidity (NTU)	558.9	327.8						
Dissolved Oxygen (mg/L)	14.42	14.17						

Sampling Data

Sampled By: Kyle Perry | Sampling Time: 1615 | Duplicate: Y or N | If yes, Duplicate Time:

Notes: Dry @ 5.75 gal. Limited Volume.

Signature: Kyle Perry

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/14/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (ºF): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N		1.0 NTU: Y or N	10.0 NTU: Y or N

Well Information

Well ID: MW-11	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35.29
Depth to Free Product (DFP) (ft.): –		Depth to Groundwater (DGW) (ft.): 16.27	Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 19.02	1 casing volume (CV=LWC*C)(gals): 3.0	3 casing volumes 3*CV)(gals): 9.0	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.0	6.0	9.0				
Time (military)	1028	1034	1040					
PH (s.u.)	7.05	7.02	7.02					
Specific Conductivity (µS/cm)	598.0	616.0	640.0					
Water Temperature (ºC)	20.41	20.28	19.47					
Turbidity (NTU)	79.6	589.7	601.9					
Dissolved Oxygen (mg/L)	12.51	14.81	10.38					

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1041	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Historically Hot!
Dry @ 6.50 gal. Limited Volume.

Signature: Kyle Perry

DHEC 0423 (10/2015) SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/14/2021 | Site ID #: 07960 | Site Name: Hwy 378 Truck Stop | Field Personnel: Kyle P. / Jase B.

County: Edgefield | Project Manager: Sawyer Hipp | General Weather Conditions: Sunny/cloudy | Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-12 | Well Diameter (ft.): 2" | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: X Bailer ___Pump

X MW ___IW ___RW ___Other________ ___Private WSW ___Public WSW | Screened Interval (ft.): 20 to 35 | Total Well Depth (TWD) (ft.): 35.00

Depth to Free Product (DFP) (ft.): – | Depth to Groundwater (DGW) (ft.): 16.76 | Free Product Thickness (ft.): –

Length of water column (LWC=TWD-DGW)(ft.): 18.24 | 1 casing volume (CV=LWC*C)(gals): 3.0 | 3 casing volumes 3*CV)(gals): 9.0 | 5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.0	6.0	9.0				
Time (military)	1014	1022	1028					
PH (s.u.)	7.18	6.97	6.93					
Specific Conductivity (µS/cm)	876.6	886.0	869.0					
Water Temperature (°C)	19.36	19.37	19.28					
Turbidity (NTU)	89.2	1000+	1000+					
Dissolved Oxygen (mg/L)	11.76	12.54	11.37					

Sampling Data

Sampled By: Kyle Perry | Sampling Time: 1029 | Duplicate: Y or N | If yes, Duplicate Time:

Notes: Historically Hot!
Dry @ 7.50 gal. Limited Volume.

Signature: Kyle Perry

DHEC 0423 (10/2015) SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/12/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: KyleP. / JaseB.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-13	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 25 to 40	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.):	1 casing volume (CV=LWC*C)(gals):	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Kyle Perry	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Not Found.

Signature: Kyle Perry

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (ºF): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-14	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 25 to 40	Total Well Depth (TWD) (ft.): 39.80
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 19.18		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 20.62	1 casing volume (CV=LWC*C)(gals): 3.25	3 casing volumes 3*CV)(gals): 9.75	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.25	6.50	9.75				
Time (military)	1511	1517						
PH (s.u.)	7.17	7.08						
Specific Conductivity (µS/cm)	392.0	374.0						
Water Temperature (ºC)	19.28	19.19						
Turbidity (NTU)	107.28	313.4						
Dissolved Oxygen (mg/L)	16.54	47.52						

Sampling Data

Sampled By: Kyle Perry	Sampling Time: ~~1418~~ 1518	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ 4.75 gal. Limited Volume.

Signature: Kyle Perry

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-15	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 25 to 40		Total Well Depth (TWD) (ft.): 40.13
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 17.27		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 22.86	1 casing volume (CV=LWC*C)(gals): 3.75	3 casing volumes 3*CV)(gals): 11.25	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.75	7.50	11.25				
Time (military)	1450	1456						
PH (s.u.)	7.79	7.64						
Specific Conductivity (µS/cm)	455.0	416.0						
Water Temperature (°C)	22.96	19.40						
Turbidity (NTU)	765.3	391.7						
Dissolved Oxygen (mg/L)	11.38	12.82						

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1457	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ 6.0 gal. Limited Volume.

Signature: Kyle Perry

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/12/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: KyleP. / JaseB.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N		1.0 NTU: Y or N	10.0 NTU: Y or N

Well Information

Well ID: MW-16	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 25 to 40	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.):	1 casing volume (CV=LWC*C)(gals):	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Kyle Perry	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Not Found.

Signature: Kyle Perry

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: KyleP. / JaseB.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-17	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35.05
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 12.07		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 22.98	1 casing volume (CV=LWC*C)(gals): 3.75	3 casing volumes 3*CV)(gals): 11.25	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.75	7.50	11.25				
Time (military)	1256	1301	1308					
PH (s.u.)	10.21	10.16	9.62					
Specific Conductivity (µS/cm)	172.0	144.0	145.0					
Water Temperature (°C)	21.47	20.43	20.47					
Turbidity (NTU)	234.8	267.0	1000+					
Dissolved Oxygen (mg/L)	14.35	13.17	12.55					

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1309	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ 9.50 gal. Limited Volume.

Signature: Kyle Perry

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: KyleP. / JaseB.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-18	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW	Screened Interval (ft.): 20 to 35		Total Well Depth (TWD) (ft.): 35.71
Depth to Free Product (DFP) (ft.): -	Depth to Groundwater (DGW) (ft.): 9.25		Free Product Thickness (ft.): -
Length of water column (LWC=TWD-DGW)(ft.): 26.46	1 casing volume (CV=LWC*C)(gals): 4.25	3 casing volumes 3*CV)(gals): 12.75	5 casing volumes (5*CV)(gals): -

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	4.25	8.50	12.75				
Time (military)	1028	1035	1043					
PH (s.u.)	6.99	6.84	6.62					
Specific Conductivity (µS/cm)	173.0	175.0	171.0					
Water Temperature (°C)	26.38	26.29	19.69					
Turbidity (NTU)	432.6	190.6	365.3					
Dissolved Oxygen (mg/L)	10.46	10.39	8.86					

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1042	Duplicate: Y or N	If yes, Duplicate Time:

Notes:
Dry @ 10.50 gal. Limited Volume.

Signature: Kyle Perry

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: KyleP. / JaseB.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-19	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other______ ___Private WSW ___Public WSW		Screened Interval (ft.): 24 to 39	Total Well Depth (TWD) (ft.): 38.60
Depth to Free Product (DFP) (ft.): –		Depth to Groundwater (DGW) (ft.): 16.77	Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 21.83	1 casing volume (CV=LWC*C)(gals): 3.50	3 casing volumes 3*CV)(gals): 10.50	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.50	7.0	10.50				
Time (military)	1153	1159	1146	1153				
PH (s.u.)	10.76	10.33	9.81	9.00				
Specific Conductivity (µS/cm)	150.0	129.0	130.0	134.0				
Water Temperature (°C)	20.28	18.91	19.65	19.51				
Turbidity (NTU)	1000+	107.0	124.1	97.4				
Dissolved Oxygen (mg/L)	9.02	10.58	8.91	9.43				

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1154	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: Kyle Perry

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-20	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 30 to 45	Total Well Depth (TWD) (ft.): 45.11
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 35.32		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 9.79	1 casing volume (CV=LWC*C)(gals): 1.50	3 casing volumes 3*CV)(gals): 4.50	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	1.50	3.0	4.50				
Time (military)	1718	1720	1723	1726				
PH (s.u.)	7.18	7.41	7.34	7.15				
Specific Conductivity (µS/cm)	368.0	323.0	307.0	300.0				
Water Temperature (°C)	22.51	21.54	19.13	19.02				
Turbidity (NTU)	212.7	385.1	260.5	286.3				
Dissolved Oxygen (mg/L)	15.01	14.52	13.67	13.17				

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1727	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Signature: Kyle Perry

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SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/14/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: KyleP. / JaseB.	
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (ºF): 70-90°	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-21	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 25 to 40	Total Well Depth (TWD) (ft.): 40.20	
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 14.03	Free Product Thickness (ft.): –	
Length of water column (LWC=TWD-DGW)(ft.): 26.17	1 casing volume (CV=LWC*C)(gals): 4.25	3 casing volumes 3*CV)(gals): 12.75	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	4.25	8.50	12.75				
Time (military)	0854	0902						
PH (s.u.)	6.92	6.81						
Specific Conductivity (µS/cm)	436.0	408.0						
Water Temperature (ºC)	21.99	20.62						
Turbidity (NTU)	283.6	211.5						
Dissolved Oxygen (mg/L)	9.52	12.72						

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 0903	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ 6.75 gal. Limited Volume.

Signature: Kyle Perry

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/14/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-22	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ ___ Private WSW ___ Public WSW	Screened Interval (ft.): 25 to 40		Total Well Depth (TWD) (ft.): 40.12
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 20.43		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 19.69	1 casing volume (CV=LWC*C)(gals): 3.25	3 casing volumes 3*CV)(gals): 9.75	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.25	6.50	9.75				
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 0946	Duplicate: Y or N	If yes, Duplicate Time: 1201

Notes: Historically Hot! / Sheen/odor - no parameters taken
Dry @ 4.50 gal.

Signature: Kyle Perry

 SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: (Y) or N	pH 7.0: (Y) or N	pH 10.0: (Y) or N	S.C.: (Y) or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: (Y) or N	1.0 NTU: (Y) or N	10.0 NTU: (Y) or N	

Well Information

Well ID: MW-23	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 22 to 37	Total Well Depth (TWD) (ft.): 37.27
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 15.02		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 22.25	1 casing volume (CV=LWC*C)(gals): 3.50	3 casing volumes 3*CV)(gals): 10.50	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.50	7.0	10.50				
Time (military)	1201	1207	1214					
PH (s.u.)	7.94	7.62	7.54					
Specific Conductivity (µS/cm)	139.0	131.0	134.0					
Water Temperature (°C)	21.21	19.85	19.85					
Turbidity (NTU)	215.8	82.6	221.3					
Dissolved Oxygen (mg/L)	12.07	13.96	9.82					

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1215	Duplicate: Y or (N)	If yes, Duplicate Time:

Notes: Dry @ 7.75 gal. Limited Volume.

Signature: Kyle Perry

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/12/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop		Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy		Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-24	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other_______ ___Private WSW ___Public WSW		Screened Interval (ft.): 25 to 40	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.):	1 casing volume (CV=LWC*C)(gals):	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Kyle Perry	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Not Found.

Signature: Kyle Perry

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: sunny/cloudy	Ambient Air Temp (°F): 70-90°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-25	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ Private WSW ___ Public WSW	Screened Interval (ft.): 25 to 40		Total Well Depth (TWD) (ft.): 40.02
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 18.23		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 21.79	1 casing volume (CV=LWC*C)(gals): 3.50	3 casing volumes 3*CV)(gals): 10.50	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.50	7.0	10.50				
Time (military)	1049	1055	1102					
PH (s.u.)	6.32	6.46	6.30					
Specific Conductivity (µS/cm)	467.0	202.0	451.0					
Water Temperature (°C)	20.12	19.51	19.29					
Turbidity (NTU)	1000+	279.0	180.2					
Dissolved Oxygen (mg/L)	7.66	7.49	8.27					

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1103	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ 8.0 gal. Limited Volume.

Signature: Kyle Perry

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/12/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-26	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other______ ___Private WSW ___Public WSW		Screened Interval (ft.): 24 to 39	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.):	1 casing volume (CV=LWC*C)(gals):	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Kyle Perry	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Not Found.

Signature: Kyle Perry

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/14/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-27	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
X MW ___ IW ___ RW ___ Other ___ Private WSW ___ Public WSW		Screened Interval (ft.): 20 to 35	Total Well Depth (TWD) (ft.): 35.10
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 16.03		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 19.07	1 casing volume (CV=LWC*C)(gals): 3.0	3 casing volumes 3*CV)(gals): 9.0	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	3.0	6.0	9.0				
Time (military)	0910	0915	0921					
PH (s.u.)	7.18	7.00	6.74					
Specific Conductivity (µS/cm)	160.0	117.0	145.0					
Water Temperature (°C)	23.37	20.76	21.13					
Turbidity (NTU)	370.6	305.8	338.5					
Dissolved Oxygen (mg/L)	8.74	11.42	7.88					

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 0922	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ 6.50 gal. Limited Volume.

Signature: Kyle Perry

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: KyleP. / JaseB.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-28	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other______ ___Private WSW ___Public WSW		Screened Interval (ft.): 25 to 40	Total Well Depth (TWD) (ft.): 40.03
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 12.87		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 27.16	1 casing volume (CV=LWC*C)(gals): 4.25	3 casing volumes 3*CV)(gals): 12.75	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	4.25	8.50	12.75				
Time (military)	1735	1742	1750					
PH (s.u.)	7.01	7.12	6.70					
Specific Conductivity (µS/cm)	129.0	97.0	83.c					
Water Temperature (°C)	23.59	21.40	20.76					
Turbidity (NTU)	1000+	144.2	291.6					
Dissolved Oxygen (mg/L)	9.92	14.98	10.29					

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1751	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ 2nd Volume.

Signature: Kyle Perry

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/14/2021 | Site ID #: 07960 | Site Name: Hwy 378 Truck Stop | Field Personnel: KyleP / JaseB.

County: Edgefield | Project Manager: Sawyer Hipp | General Weather Conditions: Sunny/cloudy | Ambient Air Temp (ºF): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-29 | Well Diameter (ft.): 2" | Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652 | Method of Purging/Sample Collection: X Bailer ___Pump

X MW ___IW ___RW ___Other________ ___Private WSW ___Public WSW | Screened Interval (ft.): 25 to 40 | Total Well Depth (TWD) (ft.): 40.17

Depth to Free Product (DFP) (ft.): - | Depth to Groundwater (DGW) (ft.): 13.89 | Free Product Thickness (ft.): -

Length of water column (LWC=TWD-DGW)(ft.): 26.28 | 1 casing volume (CV=LWC*C)(gals): 4.25 | 3 casing volumes (3*CV)(gals): 12.75 | 5 casing volumes (5*CV)(gals): -

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	4.25	8.50	12.75				
Time (military)	1312	1320						
PH (s.u.)	6.88	6.17.						
Specific Conductivity (µS/cm)	372.0	379.0						
Water Temperature (ºC)	23.58	21.67						
Turbidity (NTU)	106.8	212.4						
Dissolved Oxygen (mg/L)	13.15	12.14						

Sampling Data

Sampled By: Kyle Perry | Sampling Time: 1321 | Duplicate: Y or N | If yes, Duplicate Time:

Notes: Historically Hot!

Dry @ 7.75 gal. Limited Volume.

Signature: Kyle Perry

DHEC 0423 (10/2015) SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/14/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-30	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other___ ___Private WSW ___Public WSW		Screened Interval (ft.): 30 to 45	Total Well Depth (TWD) (ft.): 45.05
Depth to Free Product (DFP) (ft.): –		Depth to Groundwater (DGW) (ft.): 18.43	Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 26.62	1 casing volume (CV=LWC*C)(gals): 4.25	3 casing volumes 3*CV)(gals): 12.75	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	4.25	8.50	12.75				
Time (military)	0957	1004	1012					
PH (s.u.)	7.64	7.44	7.31					
Specific Conductivity (µS/cm)	624.0	657.0	664.0					
Water Temperature (°C)	17.74	18.41	18.91					
Turbidity (NTU)	114.7	236.1	422.5					
Dissolved Oxygen (mg/L)	21.60	21.15	19.40					

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1013	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Historically Hot!
Dry @ 9.0 gal. Limited Volume.

Signature: Kyle Perry

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/12/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: KyleP. / JaseB.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI~~ 63 (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW-31	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
X MW ___IW ___RW ___Other______ ___Private WSW ___Public WSW		Screened Interval (ft.): 29 to 44	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.):	1 casing volume (CV=LWC*C)(gals):	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Kyle Perry	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Not Found.

Signature: Kyle Perry

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/14/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: KyleP. / JaseB.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI~~ 63 (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N		1.0 NTU: Y or N	10.0 NTU: Y or N

Well Information

Well ID: TW-1	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
__MW __IW __RW X Other TW=Telescoping well __Private WSW __Public WSW	Screened Interval (ft.): 58 to 63		Total Well Depth (TWD) (ft.): 63.31
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 16.08		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 47.23	1 casing volume (CV=LWC*C)(gals): 7.50	3 casing volumes 3*CV)(gals): 22.50	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	7.50	15.0	22.50				
Time (military)	1139	1148	1157	1207				
PH (s.u.)	7.61	7.08	7.39	7.31				
Specific Conductivity (µS/cm)	406.0	364.0	386.0	374.0				
Water Temperature (°C)	22.69	20.62	22.28	21.14				
Turbidity (NTU)	200.9	157.2	133.5	91.0				
Dissolved Oxygen (mg/L)	9.12	11.51	10.56	10.08				

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1208	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Historically Hot!

Signature: Kyle Perry

DHEC 0423 (10/2015) SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/14/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: KyleP. / JaseB.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW-2	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer X Pump
__MW __IW __RW X Other TW=Telescoping well __Private WSW __Public WSW	Screened Interval (ft.): 75 to 80		Total Well Depth (TWD) (ft.): ~~77.39~~ KP 77.28
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 14.39		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 62.89	1 casing volume (CV=LWC*C)(gals): 10.0	3 casing volumes 3*CV)(gals): 30.0	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	10.0	20.0	30.0				
Time (military)	1121	1135						
PH (s.u.)	7.48	8.37						
Specific Conductivity (µS/cm)	303.0	318.0						
Water Temperature (°C)	23.48	23.89						
Turbidity (NTU)	78.5	82.9						
Dissolved Oxygen (mg/L)	8.64	8.96						

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1136	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Historically Hot!
Dry @ 11.25 gal. Limited Volume.

Signature: Kyle Perry

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (ºF): 70-90°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW-3	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
___MW ___IW ___RW ___Private WSW ___Public WSW X Other TW=Telescoping well	Screened Interval (ft.): 75 to 80		Total Well Depth (TWD) (ft.): 80.69
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 14.06		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 66.63	1 casing volume (CV=LWC*C)(gals): 10.75	3 casing volumes 3*CV)(gals): 32.25	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	10.75	21.50	32.25				
Time (military)	1642	1656						
PH (s.u.)	11.58	10.74						
Specific Conductivity (µS/cm)	1671.0	461.0						
Water Temperature (ºC)	21.98	21.27						
Turbidity (NTU)	132.6	117.1						
Dissolved Oxygen (mg/L)	11.66	8.96						

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1656	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ 17.0 gal. Limited Volume.

Signature: Kyle Perry

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: KyleP / JaseB
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW-4	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
___MW ___IW ___RW X Other TW=Telescoping well ___Private WSW ___Public WSW	Screened Interval (ft.): 64 to 69		Total Well Depth (TWD) (ft.): 68.62
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 17.57		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 51.05	1 casing volume (CV=LWC*C)(gals): 8.25	3 casing volumes 3*CV)(gals): 24.75	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	8.25	16.50	24.75				
Time (military)	1541	1553						
PH (s.u.)	7.06	7.71						
Specific Conductivity (µS/cm)	365.0	298.0						
Water Temperature (°C)	22.08	20.22						
Turbidity (NTU)	278.8	94.6						
Dissolved Oxygen (mg/L)	15.39	15.29						

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1554	Duplicate: Y or N	If yes, Duplicate Time:

Notes:

Dry @ 10.50 gal, Limited Volume.

Signature: Kyle Perry

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: KyleP. / JaseB.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90°

Quality Assurance

Meter Name		Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)		11B100638,	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen)	YSI 556		Y or N			
~~LaMotte~~ (Turbidity)	Hach 2100Q	16030C048860	0.0 NTU: Y or N		1.0 NTU: Y or N	10.0 NTU: Y or N

Well Information

Well ID: TW-5	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer X Pump
__MW __IW __RW X Other TW=Telescoping well __Private WSW __Public WSW		Screened Interval (ft.): 54 to 59	Total Well Depth (TWD) (ft.): 58.43
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 16.62		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 41.81	1 casing volume (CV=LWC*C)(gals): 6.75	3 casing volumes 3*CV)(gals): 19.25	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	6.75	13.50	19.25				
Time (military)	1426	1435						
PH (s.u.)	8.89	8.64						
Specific Conductivity (µS/cm)	212.0	209.0						
Water Temperature (°C)	21.62	20.99						
Turbidity (NTU)	1000+	214.5						
Dissolved Oxygen (mg/L)	15.09	13.26						

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1436	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ 9.25 gal. Limited Volume

Signature: Kyle Perry

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/12/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90'

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI~~ 63 (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW-6	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___Pump
__MW __IW __RW X Other TW=Telescoping well __Private WSW __Public WSW	Screened Interval (ft.): 54 to 59		Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.):	1 casing volume (CV=LWC*C)(gals):	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Kyle Perry	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Not Found.

Signature: Kyle Perry

DHEC 0423 (10/2015) SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW-7	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer X Pump
__MW __IW __RW __Private WSW __Public WSW X Other TW=Telescoping well	Screened Interval (ft.): 54 to 59		Total Well Depth (TWD) (ft.): 59.01
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 9.43		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 49.58	1 casing volume (CV=LWC*C)(gals): 8.0	3 casing volumes 3*CV)(gals): 24.0	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	8.0	16.0	24.0				
Time (military)	1234	1247						
PH (s.u.)	12.52	12.68						
Specific Conductivity (µS/cm)	5418.0	4249.0						
Water Temperature (°C)	21.51	21.02						
Turbidity (NTU)	70.3	81.5						
Dissolved Oxygen (mg/L)	9.39	9.63						

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1248	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ 11.25 gal. Limited Volume.

Signature: Kyle Perry

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Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.	
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90°	

Quality Assurance

Meter Name		Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)		11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen)	YSI 556		Y or N			
~~LaMotte~~ (Turbidity)	Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW-8	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer X Pump
__MW __IW __RW X Other TW=Telescoping well __Private WSW __Public WSW	Screened Interval (ft.): 54 to 59		Total Well Depth (TWD) (ft.): 58.59
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 14.33		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 44.26	1 casing volume (CV=LWC*C)(gals): 7.0	3 casing volumes 3*CV)(gals): 21.0	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	7.0	14.0	21.0				
Time (military)	1122	1132						
PH (s.u.)	11.45	11.39						
Specific Conductivity (µS/cm)	1405.0	783.0						
Water Temperature (°C)	19.84	19.54						
Turbidity (NTU)	84.8	51.3						
Dissolved Oxygen (mg/L)	8.41	14.12						

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1133	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Dry @ 9.25 gal. Limited Volume

Signature: Kyle Perry

DHEC 0423 (10/2015)

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/12/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: Kyle P. / Jase B.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature) YSI 556	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556	11B100638	Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW-9

Well Diameter (ft.): 2"

Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652

Method of Purging/Sample Collection: X Bailer ___Pump

___MW ___IW ___RW X Other TW=Telescoping well ___Private WSW ___Public WSW

Screened Interval (ft.): 75 to 80

Total Well Depth (TWD) (ft.):

Depth to Free Product (DFP) (ft.): –

Depth to Groundwater (DGW) (ft.):

Free Product Thickness (ft.): –

Length of water column (LWC=TWD-DGW)(ft.):

1 casing volume (CV=LWC*C)(gals):

3 casing volumes 3*CV)(gals):

5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Kyle Perry

Sampling Time:

Duplicate: Y or N

If yes, Duplicate Time:

Notes:

Not Found.

Signature: Kyle Perry

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/12/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: KyleP. / JaseB.
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: sunny/cloudy	Ambient Air Temp (°F): 70-90°

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI~~ 63 (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW-10	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer ___ Pump
___MW ___IW ___RW X Other TW=Telescoping well ___Private WSW ___Public WSW		Screened Interval (ft.): 60 to 65	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.):	1 casing volume (CV=LWC*C)(gals):	3 casing volumes 3*CV)(gals):	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25							
Time (military)								
PH (s.u.)								
Specific Conductivity (µS/cm)								
Water Temperature (°C)								
Turbidity (NTU)								
Dissolved Oxygen (mg/L)								

Sampling Data

Sampled By: Kyle Perry	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:

Notes: Not Found.

Signature: Kyle Perry

dhec

Underground Storage Tank Management Division
Field Data Information Sheet – Sampling

Site Information

Date: 07/13/2021	Site ID #: 07960	Site Name: Hwy 378 Truck Stop	Field Personnel: KyleP. / JaseB.	
County: Edgefield	Project Manager: Sawyer Hipp	General Weather Conditions: Sunny/cloudy	Ambient Air Temp (°F): 70-90'	

Quality Assurance

Meter Name	Serial #:	Calibration:			
~~YSI 63~~ (pH, Specific Conductivity, Temperature)	11B100638	pH 4.0: Y or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: Y or N
~~YSI 55~~ (Dissolved Oxygen) YSI 556		Y or N			
~~LaMotte~~ (Turbidity) Hach 2100Q	16030C048860	0.0 NTU: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: TW-11	Well Diameter (ft.): 2"	Conversion Factor (C): 1" well = 0.047, 2" well = 0.16, 4" well = 0.652	Method of Purging/Sample Collection: X Bailer X Pump
__MW __IW __RW __Private WSW __Public WSW X Other TW=Telescoping well	Screened Interval (ft.): 55 to 60		Total Well Depth (TWD) (ft.): 59.34
Depth to Free Product (DFP) (ft.): –	Depth to Groundwater (DGW) (ft.): 7.98		Free Product Thickness (ft.): –
Length of water column (LWC=TWD-DGW)(ft.): 51.36	1 casing volume (CV=LWC*C)(gals): 8.75	3 casing volumes 3*CV)(gals): 24.75	5 casing volumes (5*CV)(gals): –

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.25	8.25	16.50	24.75				
Time (military)	0947	0953	1005	1017				
PH (s.u.)	8.82	7.97	7.50	7.38				
Specific Conductivity (µS/cm)	337.0	292.0	288.0	290.0				
Water Temperature (°C)	20.35	20.77	20.37	20.24				
Turbidity (NTU)	1000+	107.3	182.2	202.5				
Dissolved Oxygen (mg/L)	15.98	~~15.98~~ KP 12.47	10.02	12.09				

Sampling Data

Sampled By: Kyle Perry	Sampling Time: 1018	Duplicate: Y or N	If yes, Duplicate Time:

Notes: ________________

Signature: Kyle Perry

APPENDIX C

Disposal Manifest

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address
Hwy 378 Truck Stop
731 Hwy 378
Edgefield, SC

4. Generator's Phone ( )

5. Transporter 1 Company Name
HERR, INC.

6. US EPA ID Number

A. State Transorter's ID

B. Transporter 1 Phone 910-640-2607

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
HERR, INC.
303 S. MAULTSBY ST
WHITEVILLE, NC 28472

10. US EPA ID Number
NCR-000139816

E. State Facility's ID

F. Facility's Phone 910-640-2607

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON-REG. PETROLEUM CONTACT WATER/Purge Water		DM	82.75	GAL.
b.				
c.				
d.				

GENERATOR

NON-HAZARDOUS WASTE

G. Additonal Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Scott Ball for Wilkerson Fuel
Signature: W. Scott Ball
Date: Month 7 Day 14 Year 21

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kyle Perry
Signature: W. Scott Ball For Kyle Perry
Date: Month 7 Day 14 Year 21

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this maifest, except as noted in item 19.

Printed/Typed Name: Tegan Cox
Signature: [signature]
Date: Month 9 Day 1 Year 21

APPENDIX D

Contractor Checklist

Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided?	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	X		
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?	X		
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the current and historical laboratory data been provided in tabular format?	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	X		
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

Explanation for missing or incomplete information.

GAC Unit Installation and Maintenance

UST Quincy
SEP 10 2021
PROGRAM

Date: 6/25/21

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 730 Hwy 378 East, Edgefield, SC (Scurry Residence)

GAC Unit Serial Number: Tank #
Controller #

UST
185 T
DOCKETING

NEW INSTALLATION

Date Installation Completed: ____________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* __X__ Good

Condition of GAC Housing ______ In Need of Repair* __X__ Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

- ■ Pre-GAC
- ■ Pre-GAC DUP
- ☐ Mid-GAC
- ■ Post-GAC

Comments: Pre, Pre Dup and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #62802). Total gallons filtered : 156,278

GAC Unit Installation and Maintenance

Date: 6/25/21

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 724 Hwy 378 East, Edgefield, SC (Gordon Residence)

GAC Unit Serial Number: Tank #
Controller #

NEW INSTALLATION

Date Installation Completed: ____________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* __X__ Good

Condition of GAC Housing ______ In Need of Repair* __X__ Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
☐ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre, Pre Dup and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #62802).

GAC Maintenance Report

Permit # 07960

Emerald Job # 304-D

Address	Serial #	Model #	Date Serviced	Condition of Unit	Samples Collected
730 Hwy 378 East, Edgefield, SC Scurry Residence			6/25/21	Needs Repairs ■ Good ☐	Pre-GAC ■ Dup-GAC ■ Mid-GAC ☐ Post-GAC ■
724 Hwy 378 East, Edgefield, SC Gordon Residence			6/25/21	Needs Repairs ☐ Good ■	Pre-GAC ■ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ■
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC

Notes:

Filter Disposal Method: Landfill

Service/Repairs:

Comments: Performed Carbon Filter change at Scurry & Gordon residences. Pre, and Post GAC samples were collected at the Gordon Residence with Pre, Pre Dup and Post GAC samples collected at the Scurry residence.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: / of /

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	SCDHEC	Report To:	Robert Dunn	Attention:	
Address:	2600 BULL STREET	Copy To:		Company Name:	
	COLUMBIA, SC 29201			Address:	
Email To:		Purchase Order No.:		Pace Quote Reference:	
Phone: 803-898-0589	Fax:	Project Name:	378 Truck Stop	Pace Project Manager:	T. Ezell
Requested Due Date/TAT:		Project Number:	SCDHEC SITE ID# 07960,PACE CA#92802	Pace Profile #:	

REGULATORY AGENCY

- ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
- ☑ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	TIME	COMPOSITE END/GRAB DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX, N, M, 1-2DCA by 624.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	07960 SCURRY PRE-GAC	WT	G			6-25-21	1025		9				6		3				X	X	X		
2	07960 SCURRY PRE GAC DUP	WT	G				1028		9				6		3				X	X	X		
3	07960 SCURRY POST GAC	WT	G				1035		9				6		3				X	X	X		
4	07960 GORDON PRE-GAC	WT	G				1145		9				6		3				X	X	X		
5	07960 GORDON POST GAC	WT	G				1150		9				6		3				X	X	X		
6	07960 FIELD BLANK	WT	G				1040		9				6		3				X	X	X		
7	07960 TRIP BLANK	WT	G				—		4				4						X	X			
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Cody Papp / EmeraldTX	6-25-21	1450	Josh Mallas	6/25/21	1445	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cody Papp

SIGNATURE of SAMPLER: Cody Papp

DATE Signed (MM/DD/YY): 6-25-21

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUINCY

November 02, 2021

Robert Dunn
SCDHEC
2600 Bull St
Columbia, SC 29201

UST DOCKETING 18607 Ueeh

RECEIVED
DEC 01 2021
UST DIVISION

RE: Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92569180

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on October 27, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lindsey Wooten

Lindsey N Wooten
lindsey.wooten@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Matt Wykel, SCDHEC

CERTIFICATIONS

Project:	07960/92802 378 TRUCK STOP
Pace Project No.:	92569180

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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Huntersville, NC 28078
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SAMPLE ANALYTE COUNT

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92569180

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92569180001	**07960 SCURRY PRE-GAC**	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	NSCQ	11	PASI-C
92569180002	**07960 SCURRY PRE-GAC DUP**	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	NSCQ	11	PASI-C
92569180003	**07960 SCURRY POST GAC**	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	NSCQ	11	PASI-C
92569180004	**07960 GORDON PRE-GAC**	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	NSCQ	11	PASI-C
92569180005	**07960 GORDON POST GAC**	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	NSCQ	11	PASI-C
92569180006	**07960 FIELD BLANK**	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	SAS	11	PASI-C
92569180007	**07960 TRIP BLANK**	EPA 524.2	LMB	11	PASI-C
		EPA 8260D	SAS	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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ANALYTICAL RESULTS

Project: 07960/92802 378 TRUCK STOP

Pace Project No.: 92569180

Sample: 07960 SCURRY PRE-GAC **Lab ID: 92569180001** Collected: 10/26/21 13:30 Received: 10/27/21 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	11/01/21 14:04	11/01/21 19:05	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	92	%	70-130	1	11/01/21 14:04	11/01/21 19:05	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		10/28/21 20:57	71-43-2	
1,2-Dichloroethane	**8.3**	ug/L	0.50	1		10/28/21 20:57	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		10/28/21 20:57	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/28/21 20:57	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/28/21 20:57	91-20-3	
Toluene	ND	ug/L	0.50	1		10/28/21 20:57	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		10/28/21 20:57	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		10/28/21 20:57	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/28/21 20:57	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	91	%	70-130	1		10/28/21 20:57	2199-69-1	
4-Bromofluorobenzene (S)	86	%	70-130	1		10/28/21 20:57	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	**259**	ug/L	100	1		10/30/21 14:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/30/21 14:58	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/30/21 14:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/30/21 14:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		10/30/21 14:58	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		10/30/21 14:58	108-20-3	
Ethanol	ND	ug/L	200	1		10/30/21 14:58	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/30/21 14:58	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		10/30/21 14:58	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		10/30/21 14:58	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		10/30/21 14:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92569180

Sample: 07960 SCURRY PRE-GAC DUP **Lab ID: 92569180002** Collected: 10/26/21 13:33 Received: 10/27/21 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
	Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	11/01/21 14:04	11/01/21 19:37	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	83	%	70-130	1	11/01/21 14:04	11/01/21 19:37	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		10/28/21 21:23	71-43-2	
1,2-Dichloroethane	**8.4**	ug/L	0.50	1		10/28/21 21:23	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		10/28/21 21:23	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/28/21 21:23	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/28/21 21:23	91-20-3	
Toluene	ND	ug/L	0.50	1		10/28/21 21:23	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		10/28/21 21:23	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		10/28/21 21:23	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/28/21 21:23	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	94	%	70-130	1		10/28/21 21:23	2199-69-1	
4-Bromofluorobenzene (S)	88	%	70-130	1		10/28/21 21:23	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	**242**	ug/L	100	1		10/30/21 15:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/30/21 15:19	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/30/21 15:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/30/21 15:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		10/30/21 15:19	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		10/30/21 15:19	108-20-3	
Ethanol	ND	ug/L	200	1		10/30/21 15:19	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/30/21 15:19	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		10/30/21 15:19	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		10/30/21 15:19	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		10/30/21 15:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92569180

Sample: 07960 SCURRY POST GAC **Lab ID: 92569180003** Collected: 10/26/21 13:35 Received: 10/27/21 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
	Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	1	11/01/21 14:04	11/01/21 19:58	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	89	%	70-130	1	11/01/21 14:04	11/01/21 19:58	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		10/28/21 20:06	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/28/21 20:06	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		10/28/21 20:06	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/28/21 20:06	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/28/21 20:06	91-20-3	
Toluene	ND	ug/L	0.50	1		10/28/21 20:06	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		10/28/21 20:06	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		10/28/21 20:06	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/28/21 20:06	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	93	%	70-130	1		10/28/21 20:06	2199-69-1	
4-Bromofluorobenzene (S)	86	%	70-130	1		10/28/21 20:06	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/30/21 15:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/30/21 15:38	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/30/21 15:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/30/21 15:38	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		10/30/21 15:38	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		10/30/21 15:38	108-20-3	
Ethanol	ND	ug/L	200	1		10/30/21 15:38	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/30/21 15:38	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		10/30/21 15:38	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		10/30/21 15:38	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		10/30/21 15:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92569180

Sample: 07960 GORDON PRE-GAC **Lab ID: 92569180004** Collected: 10/26/21 14:00 Received: 10/27/21 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
	Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	11/01/21 14:04	11/01/21 20:08	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	94	%	70-130	1	11/01/21 14:04	11/01/21 20:08	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		10/28/21 20:32	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/28/21 20:32	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		10/28/21 20:32	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/28/21 20:32	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/28/21 20:32	91-20-3	
Toluene	ND	ug/L	0.50	1		10/28/21 20:32	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		10/28/21 20:32	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		10/28/21 20:32	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/28/21 20:32	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	93	%	70-130	1		10/28/21 20:32	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130	1		10/28/21 20:32	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/30/21 15:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/30/21 15:58	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/30/21 15:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/30/21 15:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		10/30/21 15:58	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		10/30/21 15:58	108-20-3	
Ethanol	ND	ug/L	200	1		10/30/21 15:58	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/30/21 15:58	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		10/30/21 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		10/30/21 15:58	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		10/30/21 15:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92569180

Sample: 07960 GORDON POST GAC **Lab ID: 92569180005** Collected: 10/26/21 14:05 Received: 10/27/21 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
	Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	11/01/21 14:04	11/01/21 20:19	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	90	%	70-130	1	11/01/21 14:04	11/01/21 20:19	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		10/28/21 18:49	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/28/21 18:49	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		10/28/21 18:49	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/28/21 18:49	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/28/21 18:49	91-20-3	
Toluene	ND	ug/L	0.50	1		10/28/21 18:49	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		10/28/21 18:49	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		10/28/21 18:49	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/28/21 18:49	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	91	%	70-130	1		10/28/21 18:49	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130	1		10/28/21 18:49	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/30/21 16:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/30/21 16:18	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/30/21 16:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/30/21 16:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		10/30/21 16:18	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		10/30/21 16:18	108-20-3	
Ethanol	ND	ug/L	200	1		10/30/21 16:18	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/30/21 16:18	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		10/30/21 16:18	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		10/30/21 16:18	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		10/30/21 16:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92569180

Sample: 07960 FIELD BLANK **Lab ID: 92569180006** Collected: 10/26/21 14:15 Received: 10/27/21 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
	Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	11/01/21 14:04	11/01/21 20:29	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	89	%	70-130	1	11/01/21 14:04	11/01/21 20:29	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		10/28/21 17:05	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/28/21 17:05	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		10/28/21 17:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/28/21 17:05	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/28/21 17:05	91-20-3	
Toluene	ND	ug/L	0.50	1		10/28/21 17:05	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		10/28/21 17:05	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		10/28/21 17:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/28/21 17:05	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	92	%	70-130	1		10/28/21 17:05	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130	1		10/28/21 17:05	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/29/21 13:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/29/21 13:11	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/29/21 13:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/29/21 13:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		10/29/21 13:11	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		10/29/21 13:11	108-20-3	
Ethanol	ND	ug/L	200	1		10/29/21 13:11	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/29/21 13:11	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	93	%	70-130	1		10/29/21 13:11	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		10/29/21 13:11	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		10/29/21 13:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92569180

Sample: 07960 TRIP BLANK **Lab ID: 92569180007** Collected: 10/26/21 00:00 Received: 10/27/21 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		10/28/21 17:31	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/28/21 17:31	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		10/28/21 17:31	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/28/21 17:31	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		10/28/21 17:31	91-20-3	
Toluene	ND	ug/L	0.50	1		10/28/21 17:31	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		10/28/21 17:31	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		10/28/21 17:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/28/21 17:31	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	94	%	70-130	1		10/28/21 17:31	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130	1		10/28/21 17:31	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		10/29/21 13:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		10/29/21 13:30	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		10/29/21 13:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		10/29/21 13:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		10/29/21 13:30	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		10/29/21 13:30	108-20-3	
Ethanol	ND	ug/L	200	1		10/29/21 13:30	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		10/29/21 13:30	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	1		10/29/21 13:30	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		10/29/21 13:30	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		10/29/21 13:30	2037-26-5	

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QUALITY CONTROL DATA

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92569180

QC Batch:	656036	Analysis Method:	EPA 524.2
QC Batch Method:	EPA 524.2	Analysis Description:	524.2 MSV
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92569180001, 92569180002, 92569180003, 92569180004, 92569180005, 92569180006, 92569180007

METHOD BLANK: 3439254 Matrix: Water

Associated Lab Samples: 92569180001, 92569180002, 92569180003, 92569180004, 92569180005, 92569180006, 92569180007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	10/28/21 16:40	
Benzene	ug/L	ND	0.50	10/28/21 16:40	
Ethylbenzene	ug/L	ND	0.50	10/28/21 16:40	
m&p-Xylene	ug/L	ND	1.0	10/28/21 16:40	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/28/21 16:40	
Naphthalene	ug/L	ND	0.50	10/28/21 16:40	
o-Xylene	ug/L	ND	0.50	10/28/21 16:40	
Toluene	ug/L	ND	0.50	10/28/21 16:40	
Xylene (Total)	ug/L	ND	0.50	10/28/21 16:40	
1,2-Dichlorobenzene-d4 (S)	%	93	70-130	10/28/21 16:40	
4-Bromofluorobenzene (S)	%	88	70-130	10/28/21 16:40	

LABORATORY CONTROL SAMPLE: 3439255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.4	102	70-130	
Benzene	ug/L	20	19.2	96	70-130	
Ethylbenzene	ug/L	20	21.5	107	70-130	
m&p-Xylene	ug/L	40	43.5	109	70-130	
Methyl-tert-butyl ether	ug/L	20	18.9	95	70-130	
Naphthalene	ug/L	20	22.8	114	70-130	
o-Xylene	ug/L	20	21.8	109	70-130	
Toluene	ug/L	20	21.0	105	70-130	
Xylene (Total)	ug/L	60	65.4	109		
1,2-Dichlorobenzene-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92569180

QC Batch: 656059 | Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D | Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92569180006, 92569180007

METHOD BLANK: 3439493 Matrix: Water
Associated Lab Samples: 92569180006, 92569180007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	10/29/21 12:17	
Diisopropyl ether	ug/L	ND	1.0	10/29/21 12:17	
Ethanol	ug/L	ND	200	10/29/21 12:17	
Ethyl-tert-butyl ether	ug/L	ND	10.0	10/29/21 12:17	
tert-Amyl Alcohol	ug/L	ND	100	10/29/21 12:17	
tert-Amylmethyl ether	ug/L	ND	10.0	10/29/21 12:17	
tert-Butyl Alcohol	ug/L	ND	100	10/29/21 12:17	
tert-Butyl Formate	ug/L	ND	50.0	10/29/21 12:17	
1,2-Dichloroethane-d4 (S)	%	95	70-130	10/29/21 12:17	
4-Bromofluorobenzene (S)	%	92	70-130	10/29/21 12:17	
Toluene-d8 (S)	%	103	70-130	10/29/21 12:17	

LABORATORY CONTROL SAMPLE: 3439494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	918	92	70-130	
Diisopropyl ether	ug/L	50	54.6	109	70-130	
Ethanol	ug/L	2000	2090	105	70-130	
Ethyl-tert-butyl ether	ug/L	100	110	110	70-130	
tert-Amyl Alcohol	ug/L	1000	1090	109	70-130	
tert-Amylmethyl ether	ug/L	100	109	109	70-130	
tert-Butyl Alcohol	ug/L	500	563	113	70-130	
tert-Butyl Formate	ug/L	400	401	100	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3439495 3439496

Parameter	Units	92568810009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
3,3-Dimethyl-1-Butanol	ug/L	ND	10000	10000	8520	9240	85	92	39-157	8	
Diisopropyl ether	ug/L	22.8J	500	500	548	555	105	107	63-144	1	
Ethanol	ug/L	ND	20000	20000	19900	21100	100	106	39-176	6	
Ethyl-tert-butyl ether	ug/L	ND	1000	1000	1020	1060	102	106	66-137	4	
tert-Amyl Alcohol	ug/L	ND	10000	10000	10300	10900	103	109	54-153	5	
tert-Amylmethyl ether	ug/L	ND	1000	1000	1010	1050	101	105	69-139	4	

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QUALITY CONTROL DATA

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92569180

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3439495 3439496

Parameter	Units	92568810009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
tert-Butyl Alcohol	ug/L	ND	5000	5000	5750	6440	115	129	43-188	11	
tert-Butyl Formate	ug/L	ND	4000	4000	2330	2420	58	60	10-170	4	
1,2-Dichloroethane-d4 (S)	%						94	98	70-130		
4-Bromofluorobenzene (S)	%						102	97	70-130		
Toluene-d8 (S)	%						101	99	70-130		

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QUALITY CONTROL DATA

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92569180

QC Batch: 656060 | Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D | Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92569180001, 92569180002, 92569180003, 92569180004, 92569180005

METHOD BLANK: 3439504 Matrix: Water
Associated Lab Samples: 92569180001, 92569180002, 92569180003, 92569180004, 92569180005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	10/30/21 09:15	
Diisopropyl ether	ug/L	ND	1.0	10/30/21 09:15	
Ethanol	ug/L	ND	200	10/30/21 09:15	
Ethyl-tert-butyl ether	ug/L	ND	10.0	10/30/21 09:15	
tert-Amyl Alcohol	ug/L	ND	100	10/30/21 09:15	
tert-Amylmethyl ether	ug/L	ND	10.0	10/30/21 09:15	
tert-Butyl Alcohol	ug/L	ND	100	10/30/21 09:15	
tert-Butyl Formate	ug/L	ND	50.0	10/30/21 09:15	
1,2-Dichloroethane-d4 (S)	%	107	70-130	10/30/21 09:15	
4-Bromofluorobenzene (S)	%	102	70-130	10/30/21 09:15	
Toluene-d8 (S)	%	105	70-130	10/30/21 09:15	

LABORATORY CONTROL SAMPLE: 3439505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1130	113	70-130	
Diisopropyl ether	ug/L	50	51.7	103	70-130	
Ethanol	ug/L	2000	2130	106	70-130	
Ethyl-tert-butyl ether	ug/L	100	109	109	70-130	
tert-Amyl Alcohol	ug/L	1000	1170	117	70-130	
tert-Amylmethyl ether	ug/L	100	106	106	70-130	
tert-Butyl Alcohol	ug/L	500	584	117	70-130	
tert-Butyl Formate	ug/L	400	459	115	70-130	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3439506 3439507

Parameter	Units	92568810008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
3,3-Dimethyl-1-Butanol	ug/L	ND	80000	80000	78700	73300	98	92	39-157	7	
Diisopropyl ether	ug/L	250	4000	4000	4250	4170	100	98	63-144	2	
Ethanol	ug/L	ND	160000	160000	164000	151000	102	94	39-176	8	
Ethyl-tert-butyl ether	ug/L	ND	8000	8000	8210	7880	103	98	66-137	4	
tert-Amyl Alcohol	ug/L	ND	80000	80000	86200	78700	105	96	54-153	9	
tert-Amylmethyl ether	ug/L	ND	8000	8000	8520	8230	102	98	69-139	4	

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QUALITY CONTROL DATA

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92569180

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3439506 3439507

Parameter	Units	92568810008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
tert-Butyl Alcohol	ug/L	ND	40000	40000	41000	36200	102	91	43-188	12	
tert-Butyl Formate	ug/L	ND	32000	32000	34500	32800	108	103	10-170	5	
1,2-Dichloroethane-d4 (S)	%						111	108	70-130		
4-Bromofluorobenzene (S)	%						102	103	70-130		
Toluene-d8 (S)	%						100	100	70-130		

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QUALITY CONTROL DATA

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92569180

QC Batch: 656587 — Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 — Analysis Description: GCS 504 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92569180001, 92569180002, 92569180003, 92569180004, 92569180005, 92569180006

METHOD BLANK: 3441986 — Matrix: Water
Associated Lab Samples: 92569180001, 92569180002, 92569180003, 92569180004, 92569180005, 92569180006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	11/01/21 18:33	
1-Chloro-2-bromopropane (S)	%	118	70-130	11/01/21 18:33	

LABORATORY CONTROL SAMPLE & LCSD: 3441987 — 3441988

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.24	0.24	97	95	70-130	1	20	
1-Chloro-2-bromopropane (S)	%				84	102	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3441989 — 3441990

Parameter	Units	92569180001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.27	0.24	106	96	65-135	10	
1-Chloro-2-bromopropane (S)	%						97	95	70-130		

SAMPLE DUPLICATE: 3441991

Parameter	Units	92569180002 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1-Chloro-2-bromopropane (S)	%	83	83		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92569180

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 07960/92802 378 TRUCK STOP
Pace Project No.: 92569180

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92569180001	07960 SCURRY PRE-GAC	EPA 504.1	656587	EPA 504.1	656649
92569180002	07960 SCURRY PRE-GAC DUP	EPA 504.1	656587	EPA 504.1	656649
92569180003	07960 SCURRY POST GAC	EPA 504.1	656587	EPA 504.1	656649
92569180004	07960 GORDON PRE-GAC	EPA 504.1	656587	EPA 504.1	656649
92569180005	07960 GORDON POST GAC	EPA 504.1	656587	EPA 504.1	656649
92569180006	07960 FIELD BLANK	EPA 504.1	656587	EPA 504.1	656649
92569180001	07960 SCURRY PRE-GAC	EPA 524.2	656036		
92569180002	07960 SCURRY PRE-GAC DUP	EPA 524.2	656036		
92569180003	07960 SCURRY POST GAC	EPA 524.2	656036		
92569180004	07960 GORDON PRE-GAC	EPA 524.2	656036		
92569180005	07960 GORDON POST GAC	EPA 524.2	656036		
92569180006	07960 FIELD BLANK	EPA 524.2	656036		
92569180007	07960 TRIP BLANK	EPA 524.2	656036		
92569180001	07960 SCURRY PRE-GAC	EPA 8260D	656060		
92569180002	07960 SCURRY PRE-GAC DUP	EPA 8260D	656060		
92569180003	07960 SCURRY POST GAC	EPA 8260D	656060		
92569180004	07960 GORDON PRE-GAC	EPA 8260D	656060		
92569180005	07960 GORDON POST GAC	EPA 8260D	656060		
92569180006	07960 FIELD BLANK	EPA 8260D	656059		
92569180007	07960 TRIP BLANK	EPA 8260D	656059		

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Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR) Document No.: F-CAR-CS-033-Rev.07	Document Revised: October 28, 2020 Page 1 of 2 Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville ☐ Eden☐ Greenwood ☐ Huntersville ☑ Raleigh☐ Mechanicsville☐ Atlanta☐ Kernersville☐

Sample Condition Upon Receipt **Client Name:** SCDHEC

Project # **WO#: 92569180**

92569180

Courier: ☐ Commercial ☐Fed Ex ☑Pace ☐UPS ☐USPS ☐Other:____ ☐Client

Custody Seal Present? ☐Yes ☑No **Seals Intact?** ☐Yes ☑No

Date/Initials Person Examining Contents: 10/28/21 KS

Packing Material: ☐Bubble Wrap ☑Bubble Bags ☐None ☐ Other

Thermometer: ☑ IR Gun ID: 92T064

Type of Ice: ☐Wet ☐Blue ☐None

Biological Tissue Frozen? ☐Yes ☐No ☑N/A

Cooler Temp: 1.8 **Correction Factor:** Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 1.8

Temp should be above freezing to 6°C

☐Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐Yes ☐No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☐No

				Comments/Discrepancy:
Chain of Custody Present?	☑Yes	☐No	☐N/A	1.
Samples Arrived within Hold Time?	☑Yes	☐No	☐N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐Yes	☑No	☐N/A	3.
Rush Turn Around Time Requested?	☐Yes	☑No	☐N/A	4.
Sufficient Volume?	☑Yes	☐No	☐N/A	5.
Correct Containers Used?	☑Yes	☐No	☐N/A	6.
-Pace Containers Used?	☑Yes	☐No	☐N/A	
Containers Intact?	☑Yes	☐No	☐N/A	7.
Dissolved analysis: Samples Field Filtered?	☐Yes	☐No	☑N/A	8.
Sample Labels Match COC?	☑Yes	☐No	☐N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐Yes	☑No	☐N/A	10.
Trip Blank Present?	☑Yes	☐No	☐N/A	11.
Trip Blank Custody Seals Present?	☑Yes	☐No	☐N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐Yes ☐No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: ____________ Date/Time: ____________

Project Manager SCURF Review: ____________ Date: ____________

Project Manager SRF Review: ____________ Date: ____________

Pace Analytical®	Sample Condition Upon Receipt(SCUR) Document No.: F-CAR-CS-033-Rev.07	Page 2 of 2 Issuing Authority: Pace Carolinas Quality Office

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Project # **WO#:92569180**

PM: LNW Due Date: 11/03/21

CLIENT: 92-SCDHEC

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6	3											
2																6	3											
3																6	3											
4																6	3											
5																6	3											
6																6	3											
7																4												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A Required Client Information:

Company:	SCDHEC
Address:	2600 BULL STREET
	COLUMBIA, SC 29201
Email To:	
Phone:	803-898-0589 Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Robert Dunn
Copy To:	
Purchase Order No.:	
Project Name:	378 Truck Stop
Project Number:	SCDHEC SITE ID# 07960,PACE CA#92802

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	T. Ezell
Pace Profile #:	11313

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: SC

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92569180
1	07960 SCURRY PRE-GAC	WT	G			10/26/21	1330		9				6		3				x	x	x		001
2	07960 SCURRY PRE GAC DUP	WT	G				1533		9				6		3				x	x	x		002
3	07960 SCURRY POST GAC	WT	G				1335		9				6		3				x	x	x		003
4	07960 GORDON PRE-GAC	WT	G				1400		9				6		3				x	x	x		004
5	07960 GORDON POST GAC	WT	G				1405		9				6		3				x	x	x		005
6	07960 FIELD BLANK	WT	G				1415		9				6		3				x	x	x		006
7	07960 TRIP BLANK	WT	G			10/26/21			4				4						x	x			007
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Lee Stogner	10/27/21	0900	Josh Mallas/Pace	10/27/21	1345				
	Josh Mallas/Pace	10/27/21	1640	MD & Pace HVL	10/27/21	1640	1.8	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lee Stogner

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/27/21

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

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Quincy

September 16, 2021

RECEIVED
DEC 01 2021
UST DIVISION

UST DOCKETING 18711

Robert Dunn
SCDHEC
2600 Bull St
Columbia, SC 29201

RE: Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on September 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lindsey Wooten

Lindsey N Wooten
lindsey.wooten@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Matt Wykel, SCDHEC

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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(704)875-9092

CERTIFICATIONS

Project:	07960/92802 378 Truck Stop
Pace Project No.:	92560809

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92560809001	**07960 SCURRY PRE-GAC**	EPA 504.1	AP2	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	CL	11	PASI-C
92560809002	**07960 SCURRY PRE GAC DUP**	EPA 504.1	AP2	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	CL	11	PASI-C
92560809003	**07960 SCURRY POST GAC**	EPA 504.1	AP2	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	CL	11	PASI-C
92560809004	**07960 GORDON PRE-GAC**	EPA 504.1	AP2	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	CL	11	PASI-C
92560809005	**07960 GORDON POST GAC**	EPA 504.1	AP2	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	CL	11	PASI-C
92560809006	**07960 FIELD BLANK**	EPA 504.1	AP2	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	CL	11	PASI-C
92560809007	**07960 TRIP BLANK**	EPA 524.2	LMB	11	PASI-C
		EPA 8260D	CL	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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ANALYTICAL RESULTS

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

Sample: 07960 SCURRY PRE-GAC **Lab ID: 92560809001** Collected: 09/09/21 10:30 Received: 09/10/21 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
	Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	09/15/21 12:12	09/15/21 16:09	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	96	%	70-130	1	09/15/21 12:12	09/15/21 16:09	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		09/13/21 22:05	71-43-2	
1,2-Dichloroethane	**4.5**	ug/L	0.50	1		09/13/21 22:05	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		09/13/21 22:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		09/13/21 22:05	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		09/13/21 22:05	91-20-3	
Toluene	ND	ug/L	0.50	1		09/13/21 22:05	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		09/13/21 22:05	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		09/13/21 22:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		09/13/21 22:05	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	108	%	70-130	1		09/13/21 22:05	2199-69-1	
4-Bromofluorobenzene (S)	103	%	70-130	1		09/13/21 22:05	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	**108**	ug/L	100	1		09/14/21 19:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		09/14/21 19:20	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		09/14/21 19:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		09/14/21 19:20	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		09/14/21 19:20	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		09/14/21 19:20	108-20-3	
Ethanol	ND	ug/L	200	1		09/14/21 19:20	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		09/14/21 19:20	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		09/14/21 19:20	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		09/14/21 19:20	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		09/14/21 19:20	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

Sample: 07960 SCURRY PRE GAC DUP **Lab ID: 92560809002** Collected: 09/09/21 10:33 Received: 09/10/21 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
	Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	09/15/21 12:12	09/15/21 16:40	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	104	%	70-130	1	09/15/21 12:12	09/15/21 16:40	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		09/13/21 22:31	71-43-2	
1,2-Dichloroethane	**4.9**	ug/L	0.50	1		09/13/21 22:31	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		09/13/21 22:31	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		09/13/21 22:31	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		09/13/21 22:31	91-20-3	
Toluene	ND	ug/L	0.50	1		09/13/21 22:31	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		09/13/21 22:31	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		09/13/21 22:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		09/13/21 22:31	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	108	%	70-130	1		09/13/21 22:31	2199-69-1	
4-Bromofluorobenzene (S)	102	%	70-130	1		09/13/21 22:31	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	**128**	ug/L	100	1		09/14/21 19:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		09/14/21 19:38	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		09/14/21 19:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		09/14/21 19:38	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		09/14/21 19:38	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		09/14/21 19:38	108-20-3	
Ethanol	ND	ug/L	200	1		09/14/21 19:38	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		09/14/21 19:38	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		09/14/21 19:38	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		09/14/21 19:38	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/14/21 19:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

Sample: 07960 SCURRY POST GAC **Lab ID: 92560809003** Collected: 09/09/21 10:45 Received: 09/10/21 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
	Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	09/15/21 12:12	09/15/21 17:26	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	89	%	70-130	1	09/15/21 12:12	09/15/21 17:26	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		09/13/21 19:54	71-43-2	
1,2-Dichloroethane	**1.9**	ug/L	0.50	1		09/13/21 19:54	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		09/13/21 19:54	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		09/13/21 19:54	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		09/13/21 19:54	91-20-3	
Toluene	ND	ug/L	0.50	1		09/13/21 19:54	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		09/13/21 19:54	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		09/13/21 19:54	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		09/13/21 19:54	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	105	%	70-130	1		09/13/21 19:54	2199-69-1	
4-Bromofluorobenzene (S)	100	%	70-130	1		09/13/21 19:54	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		09/14/21 19:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		09/14/21 19:56	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		09/14/21 19:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		09/14/21 19:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		09/14/21 19:56	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		09/14/21 19:56	108-20-3	
Ethanol	ND	ug/L	200	1		09/14/21 19:56	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		09/14/21 19:56	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		09/14/21 19:56	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		09/14/21 19:56	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/14/21 19:56	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

Sample: 07960 GORDON PRE-GAC **Lab ID: 92560809004** Collected: 09/09/21 11:10 Received: 09/10/21 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	09/15/21 12:12	09/15/21 17:41	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	88	%	70-130	1	09/15/21 12:12	09/15/21 17:41	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		09/13/21 20:20	71-43-2	
1,2-Dichloroethane	**2.1**	ug/L	0.50	1		09/13/21 20:20	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		09/13/21 20:20	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		09/13/21 20:20	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		09/13/21 20:20	91-20-3	
Toluene	ND	ug/L	0.50	1		09/13/21 20:20	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		09/13/21 20:20	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		09/13/21 20:20	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		09/13/21 20:20	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	104	%	70-130	1		09/13/21 20:20	2199-69-1	
4-Bromofluorobenzene (S)	100	%	70-130	1		09/13/21 20:20	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		09/14/21 20:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		09/14/21 20:14	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		09/14/21 20:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		09/14/21 20:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		09/14/21 20:14	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		09/14/21 20:14	108-20-3	
Ethanol	ND	ug/L	200	1		09/14/21 20:14	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		09/14/21 20:14	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		09/14/21 20:14	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		09/14/21 20:14	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/14/21 20:14	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

Sample: 07960 GORDON POST GAC **Lab ID: 92560809005** Collected: 09/09/21 11:15 Received: 09/10/21 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
	Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	09/15/21 12:12	09/15/21 17:57	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	94	%	70-130	1	09/15/21 12:12	09/15/21 17:57	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		09/13/21 20:47	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	1		09/13/21 20:47	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		09/13/21 20:47	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		09/13/21 20:47	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		09/13/21 20:47	91-20-3	
Toluene	ND	ug/L	0.50	1		09/13/21 20:47	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		09/13/21 20:47	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		09/13/21 20:47	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		09/13/21 20:47	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	101	%	70-130	1		09/13/21 20:47	2199-69-1	
4-Bromofluorobenzene (S)	97	%	70-130	1		09/13/21 20:47	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		09/14/21 20:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		09/14/21 20:32	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		09/14/21 20:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		09/14/21 20:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		09/14/21 20:32	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		09/14/21 20:32	108-20-3	
Ethanol	ND	ug/L	200	1		09/14/21 20:32	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		09/14/21 20:32	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		09/14/21 20:32	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		09/14/21 20:32	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		09/14/21 20:32	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

Sample: 07960 FIELD BLANK **Lab ID: 92560809006** Collected: 09/09/21 10:50 Received: 09/10/21 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	09/15/21 12:12	09/15/21 18:12	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	91	%	70-130	1	09/15/21 12:12	09/15/21 18:12	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		09/14/21 14:05	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	1		09/14/21 14:05	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		09/14/21 14:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		09/14/21 14:05	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		09/14/21 14:05	91-20-3	
Toluene	ND	ug/L	0.50	1		09/14/21 14:05	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		09/14/21 14:05	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		09/14/21 14:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		09/14/21 14:05	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	107	%	70-130	1		09/14/21 14:05	2199-69-1	
4-Bromofluorobenzene (S)	102	%	70-130	1		09/14/21 14:05	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		09/14/21 16:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		09/14/21 16:37	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		09/14/21 16:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		09/14/21 16:37	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		09/14/21 16:37	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		09/14/21 16:37	108-20-3	
Ethanol	ND	ug/L	200	1		09/14/21 16:37	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		09/14/21 16:37	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		09/14/21 16:37	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		09/14/21 16:37	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/14/21 16:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

Sample: 07960 TRIP BLANK **Lab ID: 92560809007** Collected: 09/09/21 00:00 Received: 09/10/21 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		09/14/21 14:31	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	1		09/14/21 14:31	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		09/14/21 14:31	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		09/14/21 14:31	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		09/14/21 14:31	91-20-3	
Toluene	ND	ug/L	0.50	1		09/14/21 14:31	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		09/14/21 14:31	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		09/14/21 14:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		09/14/21 14:31	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	106	%	70-130	1		09/14/21 14:31	2199-69-1	
4-Bromofluorobenzene (S)	100	%	70-130	1		09/14/21 14:31	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		09/14/21 16:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		09/14/21 16:55	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		09/14/21 16:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		09/14/21 16:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		09/14/21 16:55	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		09/14/21 16:55	108-20-3	
Ethanol	ND	ug/L	200	1		09/14/21 16:55	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		09/14/21 16:55	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		09/14/21 16:55	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		09/14/21 16:55	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		09/14/21 16:55	2037-26-5	

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QUALITY CONTROL DATA

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

QC Batch: 646787
Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92560809001, 92560809002, 92560809003, 92560809004, 92560809005

METHOD BLANK: 3392772
Matrix: Water
Associated Lab Samples: 92560809001, 92560809002, 92560809003, 92560809004, 92560809005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	09/13/21 13:49	
Benzene	ug/L	ND	0.50	09/13/21 13:49	
Ethylbenzene	ug/L	ND	0.50	09/13/21 13:49	
m&p-Xylene	ug/L	ND	1.0	09/13/21 13:49	
Methyl-tert-butyl ether	ug/L	ND	0.50	09/13/21 13:49	
Naphthalene	ug/L	ND	0.50	09/13/21 13:49	
o-Xylene	ug/L	ND	0.50	09/13/21 13:49	
Toluene	ug/L	ND	0.50	09/13/21 13:49	
Xylene (Total)	ug/L	ND	0.50	09/13/21 13:49	
1,2-Dichlorobenzene-d4 (S)	%	98	70-130	09/13/21 13:49	
4-Bromofluorobenzene (S)	%	94	70-130	09/13/21 13:49	

LABORATORY CONTROL SAMPLE: 3392773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	18.9	94	70-130	
Benzene	ug/L	20	17.5	87	70-130	
Ethylbenzene	ug/L	20	17.4	87	70-130	
m&p-Xylene	ug/L	40	35.5	89	70-130	
Methyl-tert-butyl ether	ug/L	20	17.4	87	70-130	
Naphthalene	ug/L	20	17.9	89	70-130	
o-Xylene	ug/L	20	18.2	91	70-130	
Toluene	ug/L	20	18.0	90	70-130	
Xylene (Total)	ug/L	60	53.7	89		
1,2-Dichlorobenzene-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

QC Batch: 647015
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92560809006, 92560809007

METHOD BLANK: 3393767 Matrix: Water

Associated Lab Samples: 92560809006, 92560809007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	09/14/21 13:39	
Benzene	ug/L	ND	0.50	09/14/21 13:39	
Ethylbenzene	ug/L	ND	0.50	09/14/21 13:39	
m&p-Xylene	ug/L	ND	1.0	09/14/21 13:39	
Methyl-tert-butyl ether	ug/L	ND	0.50	09/14/21 13:39	
Naphthalene	ug/L	ND	0.50	09/14/21 13:39	
o-Xylene	ug/L	ND	0.50	09/14/21 13:39	
Toluene	ug/L	ND	0.50	09/14/21 13:39	
Xylene (Total)	ug/L	ND	0.50	09/14/21 13:39	
1,2-Dichlorobenzene-d4 (S)	%	108	70-130	09/14/21 13:39	
4-Bromofluorobenzene (S)	%	101	70-130	09/14/21 13:39	

LABORATORY CONTROL SAMPLE: 3393768

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	19.1	96	70-130	
Benzene	ug/L	20	18.2	91	70-130	
Ethylbenzene	ug/L	20	18.8	94	70-130	
m&p-Xylene	ug/L	40	37.1	93	70-130	
Methyl-tert-butyl ether	ug/L	20	17.8	89	70-130	
Naphthalene	ug/L	20	18.5	92	70-130	
o-Xylene	ug/L	20	19.0	95	70-130	
Toluene	ug/L	20	19.0	95	70-130	
Xylene (Total)	ug/L	60	56.1	94		
1,2-Dichlorobenzene-d4 (S)	%			113	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	

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QUALITY CONTROL DATA

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

QC Batch: 646792 | Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D | Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92560809001, 92560809002, 92560809003, 92560809004, 92560809005, 92560809006, 92560809007

METHOD BLANK: 3392802 Matrix: Water

Associated Lab Samples: 92560809001, 92560809002, 92560809003, 92560809004, 92560809005, 92560809006, 92560809007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	09/14/21 15:42	
Diisopropyl ether	ug/L	ND	1.0	09/14/21 15:42	
Ethanol	ug/L	ND	200	09/14/21 15:42	
Ethyl-tert-butyl ether	ug/L	ND	10.0	09/14/21 15:42	
tert-Amyl Alcohol	ug/L	ND	100	09/14/21 15:42	
tert-Amylmethyl ether	ug/L	ND	10.0	09/14/21 15:42	
tert-Butyl Alcohol	ug/L	ND	100	09/14/21 15:42	
tert-Butyl Formate	ug/L	ND	50.0	09/14/21 15:42	
1,2-Dichloroethane-d4 (S)	%	107	70-130	09/14/21 15:42	
4-Bromofluorobenzene (S)	%	101	70-130	09/14/21 15:42	
Toluene-d8 (S)	%	101	70-130	09/14/21 15:42	

LABORATORY CONTROL SAMPLE: 3392803

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	984	98	70-130	
Diisopropyl ether	ug/L	50	52.1	104	70-130	
Ethanol	ug/L	2000	2320	116	70-130	
Ethyl-tert-butyl ether	ug/L	100	110	110	70-130	
tert-Amyl Alcohol	ug/L	1000	1160	116	70-130	
tert-Amylmethyl ether	ug/L	100	106	106	70-130	
tert-Butyl Alcohol	ug/L	500	577	115	70-130	
tert-Butyl Formate	ug/L	400	457	114	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3392804 3392805

Parameter	Units	92560809005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	399	390	100	98	39-157	2	
Diisopropyl ether	ug/L	ND	20	20	17.9	17.6	89	88	63-144	1	
Ethanol	ug/L	ND	800	800	693	724	87	90	39-176	4	
Ethyl-tert-butyl ether	ug/L	ND	40	40	38.1	37.3	95	93	66-137	2	
tert-Amyl Alcohol	ug/L	ND	400	400	391	387	98	97	54-153	1	
tert-Amylmethyl ether	ug/L	ND	40	40	38.9	38.1	97	95	69-139	2	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3392804 3392805

Parameter	Units	92560809005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
tert-Butyl Alcohol	ug/L	ND	200	200	253	254	126	127	43-188	0	
tert-Butyl Formate	ug/L	ND	160	160	44.3J	36J	28	22	10-170		
1,2-Dichloroethane-d4 (S)	%						92	94	70-130		
4-Bromofluorobenzene (S)	%						98	99	70-130		
Toluene-d8 (S)	%						98	98	70-130		

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QUALITY CONTROL DATA

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

QC Batch: 647302 — Analysis Method: EPA 504.1
QC Batch Method: EPA 504.1 — Analysis Description: GCS 504 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92560809001, 92560809002, 92560809003, 92560809004, 92560809005, 92560809006

METHOD BLANK: 3395183 — Matrix: Water
Associated Lab Samples: 92560809001, 92560809002, 92560809003, 92560809004, 92560809005, 92560809006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	09/15/21 15:23	
1-Chloro-2-bromopropane (S)	%	105	70-130	09/15/21 15:23	

LABORATORY CONTROL SAMPLE & LCSD: 3395184 3395185

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.25	0.24	100	95	70-130	5	20	
1-Chloro-2-bromopropane (S)	%				98	95	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3395187 3395188

Parameter	Units	92560809002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.25	0.24	100	99	65-135	1	
1-Chloro-2-bromopropane (S)	%						99	97	70-130		

SAMPLE DUPLICATE: 3395186

Parameter	Units	92560809001 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1-Chloro-2-bromopropane (S)	%	96	99		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project:	07960/92802 378 Truck Stop
Pace Project No.:	92560809

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92560809001	**07960 SCURRY PRE-GAC**	EPA 504.1	647302	EPA 504.1	647359
92560809002	**07960 SCURRY PRE GAC DUP**	EPA 504.1	647302	EPA 504.1	647359
92560809003	**07960 SCURRY POST GAC**	EPA 504.1	647302	EPA 504.1	647359
92560809004	**07960 GORDON PRE-GAC**	EPA 504.1	647302	EPA 504.1	647359
92560809005	**07960 GORDON POST GAC**	EPA 504.1	647302	EPA 504.1	647359
92560809006	**07960 FIELD BLANK**	EPA 504.1	647302	EPA 504.1	647359
92560809001	**07960 SCURRY PRE-GAC**	EPA 524.2	646787		
92560809002	**07960 SCURRY PRE GAC DUP**	EPA 524.2	646787		
92560809003	**07960 SCURRY POST GAC**	EPA 524.2	646787		
92560809004	**07960 GORDON PRE-GAC**	EPA 524.2	646787		
92560809005	**07960 GORDON POST GAC**	EPA 524.2	646787		
92560809006	**07960 FIELD BLANK**	EPA 524.2	647015		
92560809007	**07960 TRIP BLANK**	EPA 524.2	647015		
92560809001	**07960 SCURRY PRE-GAC**	EPA 8260D	646792		
92560809002	**07960 SCURRY PRE GAC DUP**	EPA 8260D	646792		
92560809003	**07960 SCURRY POST GAC**	EPA 8260D	646792		
92560809004	**07960 GORDON PRE-GAC**	EPA 8260D	646792		
92560809005	**07960 GORDON POST GAC**	EPA 8260D	646792		
92560809006	**07960 FIELD BLANK**	EPA 8260D	646792		
92560809007	**07960 TRIP BLANK**	EPA 8260D	646792		

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Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: SCDHEC

Project WO# : 92560809

92560809

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: JB 9/13/21

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 92T064

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 3.6 **Correction Factor:** Add/Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.6

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	~~☑ Yes~~ JB 9/13/21	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	10.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: ____________ Date/Time: ____________

Project Manager SCURF Review: ____________ Date: ____________

Project Manager SRF Review: ____________ Date: ____________

Pace Analytical	Document Name: **Sample Condition Upon Receipt(SCUR)**	Document Revised: October 28, 2020 Page 2 of 2
	Document No.: **F-CAR-CS-033-Rev.07**	Issuing Authority: Pace Carolinas Quality Office

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

Project # **WO#: 92560809**

PM: LNW Due Date: 09/17/21

CLIENT: 92-SCDHEC

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6	3											
2																6	3											
3																6	3											
4																6	3											
5																6	3											
6																6	3											
7																JB 9/13/21												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, Incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A Required Client Information:
- Company: SCDHEC
- Address: 2600 BULL STREET, COLUMBIA, SC 29201
- Email To:
- Phone: 803-898-0589 Fax:
- Requested Due Date/TAT:

Section B Required Project Information:
- Report To: Robert Dunn
- Copy To:
- Purchase Order No.:
- Project Name: 378 Truck Stop
- Project Number: SCDHEC SITE ID# 07960,PACE CA#92802

Section C Invoice Information:
- Attention:
- Company Name:
- Address:
- Pace Quote Reference:
- Pace Project Manager: T. Ezell
- Pace Profile #:

REGULATORY AGENCY
- NPDES
- GROUND WATER
- DRINKING WATER
- ☑ UST
- RCRA
- OTHER

Site Location STATE: SC

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW, WATER WT, WASTE WATER WW, PRODUCT P, SOIL/SOLID SL, OIL OL, WIPE WP, AIR AR, OTHER OT, TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92560809
1	07960 SCURRY PRE-GAC	WT	G			9/9/21	1030		9				6		3				x	x	x		001
2	07960 SCURRY PRE GAC DUP	WT	G				1033		9				6		3				x	x	x		002
3	07960 SCURRY POST GAC	WT	G				1045		9				6		3				x	x	x		003
4	07960 GORDON PRE-GAC	WT	G				1110		9				6		3				x	x	x		004
5	07960 GORDON POST GAC	WT	G				1115		9				6		3				x	x	x		005
6	07960 FIELD BLANK	WT	G				1020		9				6		3				x	x	x		006
7	07960 TRIP BLANK	WT	G			9/9/21			4				4						x	x			007
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Lee Stogner	9/9/21	1700	Josh Mallas	9/10/21	1414				
	Josh Mallas	9/10/21	1830	B Pace HVL	9/10/21	1830	3.6	Y	N	Y

SAMPLER NAME AND SIGNATURE
- PRINT Name of SAMPLER: Lee Stogner
- SIGNATURE of SAMPLER: [signature]
- DATE Signed (MM/DD/YY): 9/9/21

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Quincy

GAC Unit Installation and Maintenance

Date: 9/9/21

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 730 Hwy 378 East, Edgefield, SC (Scurry Residence)

GAC Unit Serial Number: Tank #

Controller #

RECEIVED
OCT 12 2021
UST DIVISION

NEW INSTALLATION

UST DOCKETING 188 tee

Date Installation Completed: ____________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ____ In Need of Repair* X Good

Condition of GAC Housing ____ In Need of Repair* X Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
■ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre, Pre Dup and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #62802). Total gallons filtered : 156,432

GAC Unit Installation and Maintenance

Date: 9/9/21

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 724 Hwy 378 East, Edgefield, SC (Gordon Residence)

GAC Unit Serial Number: Tank #
Controller #

NEW INSTALLATION

Date Installation Completed: ______

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* X Good

Condition of GAC Housing ______ In Need of Repair* X Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

- ■ Pre-GAC
- ☐ Pre-GAC DUP
- ☐ Mid-GAC
- ■ Post-GAC

Comments: Pre, Pre Dup and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #62802).

GAC Maintenance Report

Permit # 07960

Emerald Job # 304-E

Address	Serial #	Model #	Date Serviced	Condition of Unit	Samples Collected
730 Hwy 378 East, Edgefield, SC Scurry Residence			9/9/21	Needs Repairs ■ Good ☐	Pre-GAC ■ Dup-GAC ■ Mid-GAC ☐ Post-GAC ■
724 Hwy 378 East, Edgefield, SC Gordon Residence			9/9/21	Needs Repairs ☐ Good ■	Pre-GAC ■ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ■
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC

Notes:

Filter Disposal Method: Landfill

Service/Repairs:

Comments: Performed Carbon Filter change at Scurry & Gordon residences. Pre, and Post GAC samples were collected at the Gordon Residence with Pre, Pre Dup and Post GAC samples collected at the Scurry residence.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A Required Client Information:

Company:	SCDHEC
Address:	2600 BULL STREET
	COLUMBIA, SC 29201
Email To:	
Phone:	803-898-0589 Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Robert Dunn
Copy To:	
Purchase Order No.:	
Project Name:	378 Truck Stop
Project Number:	SCDHEC SITE ID# 07960,PACE CA#92802

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	T. Ezell
Pace Profile #:	

REGULATORY AGENCY

NPDES	GROUND WATER	DRINKING WATER
✔ UST	RCRA	OTHER

Site Location STATE: SC

Section D Required Client Information

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	↓Analysis Test↓ Y/N	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	07960 SCURRY PRE-GAC	WT	G			9/9/21	1030		9				6		3				X	X	X		
2	07960 SCURRY PRE GAC DUP	WT	G				1033		9				6		3				X	X	X		
3	07960 SCURRY POST GAC	WT	G				1045		9				6		3				X	X	X		
4	07960 GORDON PRE-GAC	WT	G				1110		9				6		3				X	X	X		
5	07960 GORDON POST GAC	WT	G				1115		9				6		3				X	X	X		
6	07960 FIELD BLANK	WT	G				1050		9				6		3				X	X	X		
7	07960 TRIP BLANK	WT	G			9/9/21			4				4						X	X			
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Lee Stogner	9/9/21	1700	Josh Mallas	9/10/21	1414	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lee Stogner

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 9/9/21

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

GAC Unit Installation and Maintenance

Date: 10/26/21

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 730 Hwy 378 East, Edgefield, SC (Scurry Residence)

GAC Unit Serial Number: Tank #
Controller #

RECEIVED
NOV 17 2021
UST DIVISION

UST DOCKETING

NEW INSTALLATION

Date Installation Completed: ________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ____ In Need of Repair* X Good

Condition of GAC Housing ____ In Need of Repair* X Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
■ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre, Pre Dup and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #62802). Total gallons filtered : 156,443

GAC Unit Installation and Maintenance

Date: 10/26/21

Facility Name: Former 378 Truck Stop

UST Permit Number: 07960

GAC Address: 724 Hwy 378 East, Edgefield, SC (Gordon Residence)

GAC Unit Serial Number: Tank #
Controller #

NEW INSTALLATION

Date Installation Completed: ____________

Attachments Required
- ☐ schematic of system as installed
- ☐ copy of analytical data for pre and post GAC samples
- ☐ calculations of filter change
- ☐ calculations of breakthrough

MAINTENANCE AND SERVICE

■ FILTER CHANGE

Filter Disposal Method: Landfill

Condition of GAC Unit ______ In Need of Repair* __X__ Good

Condition of GAC Housing ______ In Need of Repair* __X__ Good

*Repairs Needed:

☐ SERVICE/REPAIR CALL

Service or Repair Provided:

☐ SAMPLE COLLECTION

■ Pre-GAC
☐ Pre-GAC DUP
☐ Mid-GAC
■ Post-GAC

Comments: Pre, Pre Dup and Post GAC samples were collected as described in the approved Site Specific Work Plan. Please find the attached Pace Chain of Custody Record. (Pace CA #62802).

GAC Maintenance Report

Permit # 07960

Emerald Job # 304-F

Address	Serial #	Model #	Date Serviced	Condition of Unit	Samples Collected
730 Hwy 378 East, Edgefield, SC Scurry Residence			10/26/21	Needs Repairs ■ Good ☐	Pre-GAC ■ Dup-GAC ■ Mid-GAC ☐ Post-GAC ■
724 Hwy 378 East, Edgefield, SC Gordon Residence			10/26/21	Needs Repairs ☐ Good ■	Pre-GAC ■ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ■
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC ☐
				Needs Repairs ☐ Good ☐	Pre-GAC ☐ Dup-GAC ☐ Mid-GAC ☐ Post-GAC

Notes:

Filter Disposal Method: Landfill

Service/Repairs:

Comments: Performed Carbon Filter change at Scurry & Gordon residences. Pre, and Post GAC samples were collected at the Gordon Residence with Pre, Pre Dup and Post GAC samples collected at the Scurry residence.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A Required Client Information:
- Company: SCDHEC
- Address: 2600 BULL STREET, COLUMBIA, SC 29201
- Email To:
- Phone: 803-898-0589 Fax:
- Requested Due Date/TAT:

Section B Required Project Information:
- Report To: Robert Dunn
- Copy To:
- Purchase Order No.:
- Project Name: 378 Truck Stop
- Project Number: SCDHEC SITE ID# 07960,PACE CA#92802

Section C Invoice Information:
- Attention:
- Company Name:
- Address:
- Pace Quote Reference:
- Pace Project Manager: T. Ezell
- Pace Profile #:

REGULATORY AGENCY
- ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
- ☑ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

Valid Matrix Codes: DRINKING WATER DW, WATER WT, WASTE WATER WW, PRODUCT P, SOIL/SOLID SL, OIL OL, WIPE WP, AIR AR, OTHER OT, TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	07960 SCURRY PRE-GAC	WT	G			10/26/21	1330		9				6		3				X	X	X		
2	07960 SCURRY PRE GAC DUP	WT	G				1333		9				6		3				X	X	X		
3	07960 SCURRY POST GAC	WT	G				1335		9				6		3				X	X	X		
4	07960 GORDON PRE-GAC	WT	G				1400		9				6		3				X	X	X		
5	07960 GORDON POST GAC	WT	G				1405		9				6		3				X	X	X		
6	07960 FIELD BLANK	WT	G				1415		9				6		3				X	X	X		
7	07960 TRIP BLANK	WT	G			10/26/21			4				4						X	X			
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Lee Stogner	10/27/21	0900	Josh Mallas	10/27/21	1345	

SAMPLER NAME AND SIGNATURE
- PRINT Name of SAMPLER: Lee Stogner
- SIGNATURE of SAMPLER: [signature]
- DATE Signed (MM/DD/YY): 10/27/21

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Healthy People. Healthy Communities.

MAR 23 2022

UST 189 DOCKETING

RONNY LOWDER
EMERALD INC
PO BOX 3050
SUMTER SC 29151

Re: **Site Specific Work Plan Request for GAC Change and Groundwater Sample Collection**
378 Truck Stop, 731 Hwy. 378, Edgefield, SC
UST Permit # 07960
Release reported October 3, 1974
GAC Sampling Report received December 1, 2021
Edgefield County

Dear Mr. Lowder:

The Underground Storage Tank (UST) Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report. The report indicates the presence of chemicals of concern (CoCs) in the groundwater.

To ensure a clean source of drinking water, in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of a Granular Activated Carbon (GAC) Unit sampling and filter change event as outlined in the current revision of the UST Quality Assurance Program Plan (QAPP) is necessary. This scope of work should, in accordance with the UST QAPP and in compliance with all applicable regulations, be conducted on the listed Property Owner(s) water supply well(s).

Property Owner	Address
Scurry Residence	730 Hwy. 378 E., Edgefield, SC
Gordon Residence	724 Hwy. 378 E., Edgefield, SC

Pre-and post- GAC samples should be collected prior to the filter change and analyzed for BTEX, Mtbe, Naphthalene, 1,2-DCA, the Oxygenates, Ethanol, and EDB. Analyses should be in accordance with Appendix F of the QAPP to include duplicate samples, field and trip blanks. A copy of the DHEC QAPP for the UST Management Division is available at
http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance.

Please complete and submit the Site-Specific Work Plan and Cost Proposal to the UST Division within fifteen (15) days of the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. Please note that technical and financial pre-approval from DHEC must be issued before work begins.

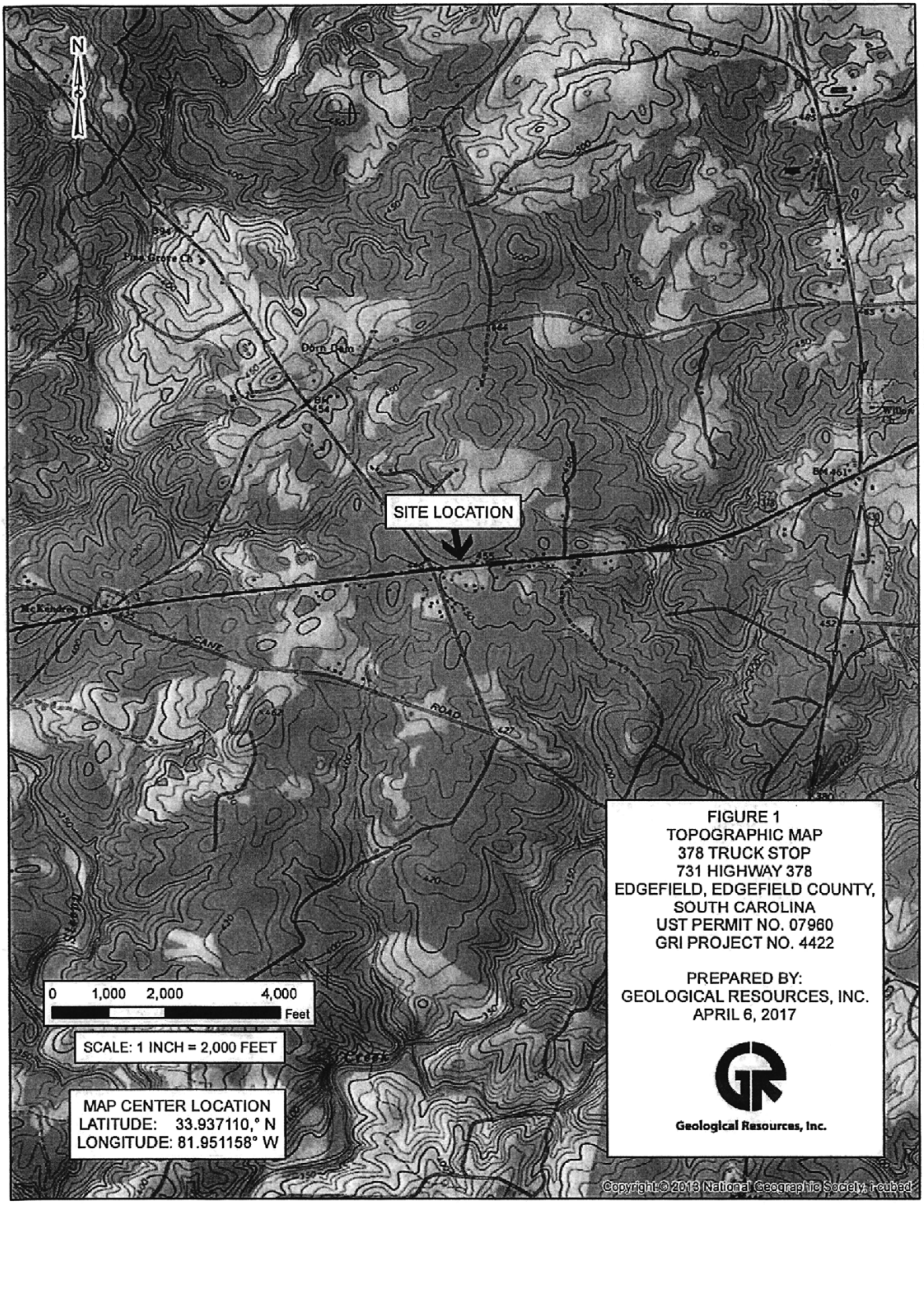
On all correspondence regarding this site, please reference UST Permit #07960. If you have questions or need additional information, feel free to contact me by telephone at (803) 898-0655, by fax at (803) 898-0673, or by e-mail to hofferqm@dhec.sc.gov. If you have any contract specific questions, please contact Morgan Thomas by phone (803) 898-2889 or email thomasma@dhec.sc.gov.

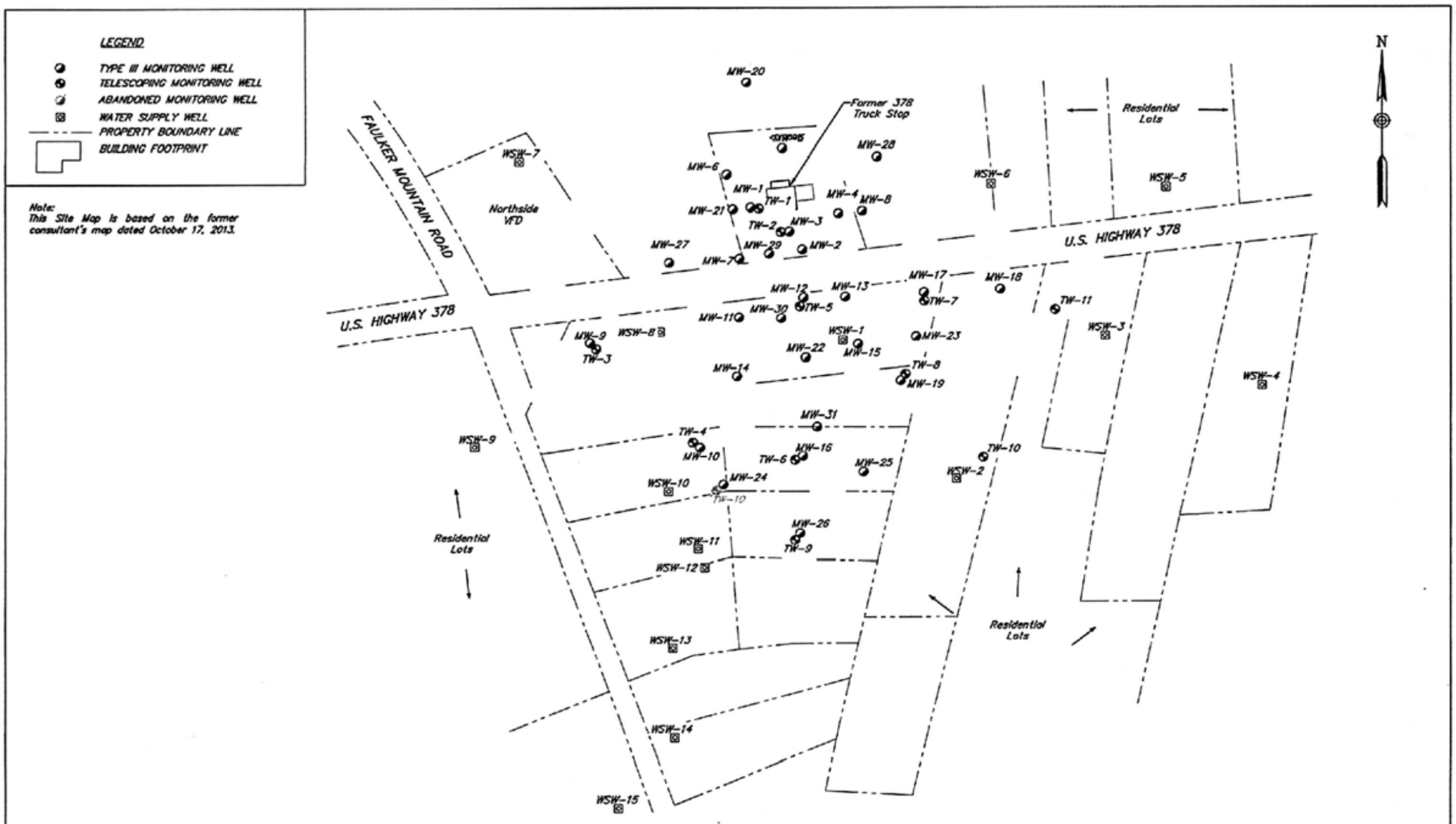
Sincerely,

Quincy Hoffer, Hydrogeologist
Corrective Action & Quality Assurance Section
UST Management Division
Bureau of Land and Waste Management

enc: Site Information

cc: Morgan Thomas, UST Management Division (w/o enc)
Technical File (w/o enc)


N
SITE LOCATION
Pine Grove Ch
Dorn Dam
McKendree Ch
CANE
ROAD
0 1,000 2,000 4,000
Feet
SCALE: 1 INCH = 2,000 FEET
MAP CENTER LOCATION
LATITUDE: 33.937110,° N
LONGITUDE: 81.951158° W
FIGURE 1
TOPOGRAPHIC MAP
378 TRUCK STOP
731 HIGHWAY 378
EDGEFIELD, EDGEFIELD COUNTY,
SOUTH CAROLINA
UST PERMIT NO. 07960
GRI PROJECT NO. 4422
PREPARED BY:
GEOLOGICAL RESOURCES, INC.
APRIL 6, 2017
Geological Resources, Inc.
Copyright:© 2013 National Geographic Society, i-cubed



Geological Resources, Inc.

0 75 150 300
(IN FEET)
1 inch = 150 ft

SITE MAP	
378 Truck Stop UST Permit No. 07960 GRI Project No. 4422	731 Highway 378 Edgefield, Edgefield County, SC
Date: 07/22/19 Drawn by: DTH	Figure: 2

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

Sample: 07960 SCURRY PRE-GAC	Lab ID: 92560809001	Collected: 09/09/21 10:30			Received: 09/10/21 14:14		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
	Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	09/15/21 12:12	09/15/21 16:09	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	96	%	70-130	1	09/15/21 12:12	09/15/21 16:09	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		09/13/21 22:05	71-43-2	
1,2-Dichloroethane	**4.5**	ug/L	0.50	1		09/13/21 22:05	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		09/13/21 22:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		09/13/21 22:05	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		09/13/21 22:05	91-20-3	
Toluene	ND	ug/L	0.50	1		09/13/21 22:05	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		09/13/21 22:05	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		09/13/21 22:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		09/13/21 22:05	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	108	%	70-130	1		09/13/21 22:05	2199-69-1	
4-Bromofluorobenzene (S)	103	%	70-130	1		09/13/21 22:05	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	**108**	ug/L	100	1		09/14/21 19:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		09/14/21 19:20	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		09/14/21 19:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		09/14/21 19:20	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		09/14/21 19:20	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		09/14/21 19:20	108-20-3	
Ethanol	ND	ug/L	200	1		09/14/21 19:20	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		09/14/21 19:20	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		09/14/21 19:20	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		09/14/21 19:20	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		09/14/21 19:20	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 Truck Stop

Pace Project No.: 92560809

Sample: 07960 SCURRY PRE GAC DUP | Lab ID: 92560809002 | Collected: 09/09/21 10:33 | Received: 09/10/21 14:14 | Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
	Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	09/15/21 12:12	09/15/21 16:40	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	104	%	70-130	1	09/15/21 12:12	09/15/21 16:40	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		09/13/21 22:31	71-43-2	
1,2-Dichloroethane	**4.9**	ug/L	0.50	1		09/13/21 22:31	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		09/13/21 22:31	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		09/13/21 22:31	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		09/13/21 22:31	91-20-3	
Toluene	ND	ug/L	0.50	1		09/13/21 22:31	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		09/13/21 22:31	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		09/13/21 22:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		09/13/21 22:31	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	108	%	70-130	1		09/13/21 22:31	2199-69-1	
4-Bromofluorobenzene (S)	102	%	70-130	1		09/13/21 22:31	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	**128**	ug/L	100	1		09/14/21 19:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		09/14/21 19:38	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		09/14/21 19:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		09/14/21 19:38	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		09/14/21 19:38	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		09/14/21 19:38	108-20-3	
Ethanol	ND	ug/L	200	1		09/14/21 19:38	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		09/14/21 19:38	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		09/14/21 19:38	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		09/14/21 19:38	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/14/21 19:38	2037-26-5	

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(704)875-9092

ANALYTICAL RESULTS

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

Sample: 07960 SCURRY POST GAC **Lab ID: 92560809003** Collected: 09/09/21 10:45 Received: 09/10/21 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
	Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	09/15/21 12:12	09/15/21 17:26	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	89	%	70-130	1	09/15/21 12:12	09/15/21 17:26	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		09/13/21 19:54	71-43-2	
1,2-Dichloroethane	**1.9**	ug/L	0.50	1		09/13/21 19:54	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		09/13/21 19:54	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		09/13/21 19:54	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		09/13/21 19:54	91-20-3	
Toluene	ND	ug/L	0.50	1		09/13/21 19:54	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		09/13/21 19:54	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		09/13/21 19:54	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		09/13/21 19:54	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	105	%	70-130	1		09/13/21 19:54	2199-69-1	
4-Bromofluorobenzene (S)	100	%	70-130	1		09/13/21 19:54	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		09/14/21 19:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		09/14/21 19:56	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		09/14/21 19:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		09/14/21 19:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		09/14/21 19:56	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		09/14/21 19:56	108-20-3	
Ethanol	ND	ug/L	200	1		09/14/21 19:56	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		09/14/21 19:56	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		09/14/21 19:56	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		09/14/21 19:56	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/14/21 19:56	2037-26-5	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

Sample: 07960 GORDON PRE-GAC **Lab ID: 92560809004** Collected: 09/09/21 11:10 Received: 09/10/21 14:14 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
	Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	09/15/21 12:12	09/15/21 17:41	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	88	%	70-130	1	09/15/21 12:12	09/15/21 17:41	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		09/13/21 20:20	71-43-2	
1,2-Dichloroethane	**2.1**	ug/L	0.50	1		09/13/21 20:20	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		09/13/21 20:20	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		09/13/21 20:20	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		09/13/21 20:20	91-20-3	
Toluene	ND	ug/L	0.50	1		09/13/21 20:20	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		09/13/21 20:20	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		09/13/21 20:20	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		09/13/21 20:20	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	104	%	70-130	1		09/13/21 20:20	2199-69-1	
4-Bromofluorobenzene (S)	100	%	70-130	1		09/13/21 20:20	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		09/14/21 20:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		09/14/21 20:14	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		09/14/21 20:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		09/14/21 20:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		09/14/21 20:14	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		09/14/21 20:14	108-20-3	
Ethanol	ND	ug/L	200	1		09/14/21 20:14	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		09/14/21 20:14	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		09/14/21 20:14	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		09/14/21 20:14	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/14/21 20:14	2037-26-5	

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ANALYTICAL RESULTS

Project: 07960/92802 378 Truck Stop
Pace Project No.: 92560809

Sample: 07960 GORDON POST GAC | Lab ID: 92560809005 | Collected: 09/09/21 11:15 | Received: 09/10/21 14:14 | Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
504 GCS EDB and DBCP	Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
	Pace Analytical Services - Charlotte							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	09/15/21 12:12	09/15/21 17:57	106-93-4	
Surrogates								
1-Chloro-2-bromopropane (S)	94	%	70-130	1	09/15/21 12:12	09/15/21 17:57	301-79-56	
524.2 MSV SC List	Analytical Method: EPA 524.2							
	Pace Analytical Services - Charlotte							
Benzene	ND	ug/L	0.50	1		09/13/21 20:47	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	1		09/13/21 20:47	107-06-2	
Ethylbenzene	ND	ug/L	0.50	1		09/13/21 20:47	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		09/13/21 20:47	1634-04-4	
Naphthalene	ND	ug/L	0.50	1		09/13/21 20:47	91-20-3	
Toluene	ND	ug/L	0.50	1		09/13/21 20:47	108-88-3	
Xylene (Total)	ND	ug/L	0.50	1		09/13/21 20:47	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	1		09/13/21 20:47	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		09/13/21 20:47	95-47-6	
Surrogates								
1,2-Dichlorobenzene-d4 (S)	101	%	70-130	1		09/13/21 20:47	2199-69-1	
4-Bromofluorobenzene (S)	97	%	70-130	1		09/13/21 20:47	460-00-4	
8260 MSV Low Level SC	Analytical Method: EPA 8260D							
	Pace Analytical Services - Charlotte							
tert-Amyl Alcohol	ND	ug/L	100	1		09/14/21 20:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		09/14/21 20:32	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		09/14/21 20:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		09/14/21 20:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		09/14/21 20:32	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		09/14/21 20:32	108-20-3	
Ethanol	ND	ug/L	200	1		09/14/21 20:32	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		09/14/21 20:32	637-92-3	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		09/14/21 20:32	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		09/14/21 20:32	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		09/14/21 20:32	2037-26-5	

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TABLE 1
SUMMARY OF ADJACENT PROPERTY OWNERS AND ADDRESSES[1]
378 TRUCK STOP

Parcel Identification	Property Owner Name	Property Owner Mailing Address	Property Address	Water Supply Wells on Property	Groundwater Monitoring Wells Currently Installed on Property	Notes
108-00-00-023-000	Gail A. & Barbara O. Whitmer	1226 Hwy 378 East, Edgefield, SC 29824	731 Hwy 378 East, Edgefield, SC 29824	Possible abandoned WSW	MW-1 through MW-6, MW 21, TW-1, TW-2	SITE
108-00-00-022-000	Gail A. & Barbara O. Whitmer	1226 Hwy 378 East, Edgefield, SC 29824	unknown	WSW-6 & Disconnected WSW	MW-7, MW-8, MW-20, MW-27, MW-28	Wooded Area around site; WSW-6 tag info: Date: 9/14/00, Depth: 400 ft.
108-00-00-034-000	Shirley J. Coates	328 Florence Street NW, Aiken, SC 29801	741 Hwy 378 East, Edgefield, SC 29824	no WSWs identified	-	-
108-00-00-035-000	Betty O. Doolittle	1184 Hwy 378 East, Edgefield, SC 29824	unknown	no WSWs identified	-	-
108-00-00-036-000	21st Mortgage Corporation	620 Market Street #100, Knoxville TN 37902	745 Hwy 378 East, Edgefield, SC 29824	WSW-5	-	WSW-5 tag info: Date: 6/16/07, Depth: 300 ft; well was disconnected from power during 12/8/10 visit
108-00-00-038-000	Northside Volunteer Fire Department	719 Hwy 378 East, Edgefield, SC 29824	719 Hwy 378 East, Edgefield, SC 29824	WSW-7	-	-
109-00-00-022-000	Andrew & Kathalene Stevens	752 Hwy 378 East, Edgefield, SC 29824	752 Hwy 378 East, Edgefield, SC 29824	WSW-4	-	-
109-00-00-024-000	Shirley J. Coates	328 Florence Street NW, Aiken, SC 29801	unknown	no WSWs identified	-	-
109-00-00-025-000	Johnnie Lee Gilliam	5890 Saratoga Drive Crestview, FL 32536	758 Hwy 378 East, Edgefield, SC 29824	Disconnected WSW	-	Abandoned trailer in the woods.
109-00-00-026-000	Hattie and Richard Dormeyer Coates	736 Hwy 378 East, Edgefield, SC 29824	736 Hwy 378 East, Edgefield, SC 29824	WSW-2 & Abandoned WSW	MW-18	-
109-00-00-028-000	Leroy Diggs	Post Office Box 25664, Los Angeles, CA 90025	744 Hwy 378 East, Edgefield, SC 29824	WSW-3 (Disconnected)	-	Not occupied
109-00-01-001-000	Hattie Scurry, etal	730 Hwy 378 East, Edgefield, SC 29824	730 Hwy 378 East, Edgefield, SC 29824	WSW-1 & Disconnected WSW	MW-11 through MW-15, MW-17, MW-22, MW-23, TW-5, TW-7	WSW-1 tag info: Date: 12/91, Depth: 280 ft
109-00-01-002-000	Henry Allen Harling	136 Casbel Ct. Hopkins, SC 29061	unknown	Abandoned WSW	MW-19 and TW-8	Wooded lot behind Scurry residence; resident indicated abandoned WSW is on the corner of the trailer.
109-00-01-003-000	Clifford T. Owdom	Post Office Box 606, Saluda, SC 29138	732 Hwy 378 East, Edgefield, SC 29824	Disconnected WSW	MW-16, MW-25, TW-6	-
109-00-01-004-000	JG and JP Owdom	1226 Hwy 378 East, Edgefield, SC 29824	unknown	no WSWs identified	MW-26 and TW-9	-
109-00-01-006-000	Ulysses Padgett	62 Faulkner Mountain Rd, Edgefield, SC 29824	62 Faulkner Mountain Rd, Edgefield, SC 29824	no WSWs identified	-	-
109-00-01-007-000	Ida Bryant	54 Faulkner Mountain Rd, Edgefield, SC 29824	54 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-14	-	-
109-00-01-009-000	Derrick Simpkins	64 Faulkner Mountain Rd, Edgefield, SC 29824	64 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-12 and WSW-13	-	-
109-00-01-010-000	Luther Mitchell Life Estate	66 Faulkner Mountain Rd, Edgefield, SC 29824	66 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-11	-	-
109-00-01-011-000	Bennie Culbreath	68 Faulkner Mountain Rd, Edgefield, SC 29824	68 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-10	MW-10, MW-24, TW-4, abandoned TW-10	-
109-00-01-012-000	Sidney L. Gordon	724 Hwy 378 East, Edgefield, SC 29824	724 Hwy 378 East, Edgefield, SC 29824	WSW-8 & Disconnected WSW	MW-9 and TW-3	-
109-00-01-013-000	Johnnie James & Sophie J. Bowman Life Estate	71 Faulkner Mountain Rd, Edgefield, SC 29824	71 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-9	-	-
109-00-01-014-000	Johnnie James, Jr. and Joan P. Bowman	57 Faulkner Mountain Rd, Edgefield, SC 29824	57 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-15	-	-

Notes:
1. Adjacent/adjoining properties are keyed intoFigure 2.

Site Information for N-07960 Facility: 378 TRUCK STOP

Bus. Address 731 HWY 378 EDGEFIELD SC 29824 **Phone** **County** Edgefield **District** Aiken EQC Office

Category Retail Sales **Last Inspection** **Trans. of Ownership**

Tank Owner WILKERSON FUEL CO INC
Bus. Address PO BOX 2835 ROCK HILL SC 29732-4835 **Phone** 803-324-4080

Financial Responsibility
Financial Mechanism **Expiration Date**
Training Date

Operator
Bus. Address **Phone**

Land Owner GAIL & BARBARA WHITMER
Bus. Address 1226 HWY 378 E EDGEFIELD SC 29824 **Phone** 803-637-3878

Tanks 3 **Billable** 0 **Aband.** 3 **Other** 0

Compliance Operator(s) **ID**

Significant? Y **Memo Date:** 11/03/09
Site Memo: WSW1 is replacement w ell that w as installed several years ago using Federal Trust Money at UST Permit #15972. The original w ell had been impacted by the petroleum release. Site #07960 w as subsequently determined to be the source of the petroleum contamination. The w ell w as sampled in Nov. 2002 to make sure no impacts have occurred.

Significant? Y **Memo Date:** 09/11/02
Site Memo: See additional information in file for UST Permit #15972, Scurry Well Contamination.

Significant? Y **Memo Date:** 07/08/10
Site Memo: There are a total of 15 WSWs w ithin 1,000 feet of the facility, w hich supply w ater to residences. There is no municipal w ater in the area.

Significant? N **Memo Date:** 01/12/17
Site Memo: Contrator Changed to Geological Resources Inc

Rel. No. 1	**Reported**	10/03/74	**Status**	Confirmed - Active	**Product**	Petroleum	**Compl Required**	N
Active Tnks	**NFA**		**Fin. Type**	With SUPERB	**RBCA / Score**	1D 1221	**Compliance Met**	Y
	Confirmed	07/08/96	**Emer. Resp.**		**Superb Qualified**	Y	**Compliance Met Dt**	11/04/09
	CU Init.	09/03/09	**Abate. Met**	11/11/87	**Superb Determ. Dt**	11/04/09	**Fin Res Mechanism**	
	CU Compl.		**Transferred**		**Project Manager**	HOFFER QUINCY M		

CU > MCL **Source** UST **Responsible Party** WILKERSON FUEL CO INC

Ranking **SCRBCA:** 1D - Chemicals detected in w ater **FP Thick:** Unknow n

Rel. No. 1

Analyticals	Contaminant	ug/L	RBSL	Score	SSTL's	Other Contaminants	ug/L	SSTL's
	Benzene	5940	5	1188	195	*		
	Toluene	4450	1000	4	26540	1,2-DCA MW3	412	
	Ethylbenzene	946	700	1	3700	EDB MW-22	1.9	1.04
	Xylene	9410	10000	1	21680	GROUNDWATER		
	Naphthalene	660	25	26	462	TABLE IS UP 3 FEET		
	MTBE	6.4	40	0	173000	SINCE 7/29/2014		
		Total Score:		1221		GWS 11/9/2015		
						TAA MW3	11700	30176
						WSW-PREGAC ND;		
						POST ND		
						WSW8 PREGAC ND;		
						POST ND		

Receptor Ttype: PUBLIC **Ground Water Flow:** SE

Distancd to Receptor: 205 **Seepage Velocity:** 31.31

GW Depth: 20.77

Tank No. 1

Const.		**Class**	N	**Tank Const. Mat.**	SL	**Pipe Const. Mat.**	SL
Operate		**T Status**	ABD	**Tank Protect.**	CP	**Pipe Protect.**	CP
Notify	03/14/94	**Capacity**	2,000	**Tank Cont. Meth.**	SW	**Pipe Cont. Meth.**	SW
Variance		**Product**	GN	**Overfill Type**	Ver	**Piping Type**	
Compl.		**C Status**		**Age @ Notif.**	0	**Dist. to Well**	
Spill Det.		**Left Gal.**		**Owner @ ABD**	P&O OIL CO INC	**Last Use**	
Aband.	01/01/87	**Method**	RG	**CAS No.**	**Chem.**		
Under Dispenser Cont.	N	**Drop Tube**	N	**Tank Leak Det.**		**Pipe Leak Det.**	

Tank No. 2

Const.		**Class**	N	**Tank Const. Mat.**	SL	**Pipe Const. Mat.**	SL
Operate		**T Status**	ABD	**Tank Protect.**	CP	**Pipe Protect.**	CP
Notify	06/14/94	**Capacity**	1,000	**Tank Cont. Meth.**	SW	**Pipe Cont. Meth.**	SW
Variance		**Product**	GN	**Overfill Type**	Ver	**Piping Type**	
Compl.		**C Status**		**Age @ Notif.**	0	**Dist. to Well**	
Spill Det.		**Left Gal.**		**Owner @ ABD**	P&O OIL CO INC	**Last Use**	
Aband.	01/01/87	**Method**	RG	**CAS No.**	**Chem.**		
Under Dispenser Cont.	N	**Drop Tube**	N	**Tank Leak Det.**		**Pipe Leak Det.**	

Tank No. 3

Const.		**Class**	N	**Tank Const. Mat.**	SL	**Pipe Const. Mat.**	SL
Operate		**T Status**	ABD	**Tank Protect.**	CP	**Pipe Protect.**	CP
Notify	03/14/94	**Capacity**	550	**Tank Cont. Meth.**	SW	**Pipe Cont. Meth.**	SW
Variance		**Product**	DL	**Overfill Type**	Ver	**Piping Type**	
Compl.		**C Status**		**Age @ Notif.**	0	**Dist. to Well**	
Spill Det.		**Left Gal.**		**Owner @ ABD**	P&O OIL CO INC	**Last Use**	
Aband.	01/01/87	**Method**	RG	**CAS No.**	**Chem.**		
Under Dispenser Cont.	N	**Drop Tube**	N	**Tank Leak Det.**		**Pipe Leak Det.**	

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

December 6, 2010

SIDNEY GORDON
724 HIGHWAY 378 E
EDGEFIELD SC 29824-4102

Re: Reimbursement For Bottled Water Purchase
378 Truck Stop, 731 Hwy 378 E, Edgefield, SC
UST Permit # 07960
GAC Installation Report received November 29, 2010
Meeting at Gordon Residence on December 1, 2010
Edgefield County

Dear Mr. Gordon:

Per our meeting on December 1, 2010, I am sending you an invoice form for your signature for you to complete and sign in order to reimburse you for the costs of your purchases of bottled drinking water. Please return the form to my attention as soon as possible to:

UST Management Division
Attn: Cathleen Ridgley
2600 Bull Street
Columbia, SC 29201

As you are aware the Granular Activated Carbon (GAC) Unit was installed on your well on November 12, 2010; the water was sampled and analyzed before and after traveling through the unit. No petroleum chemicals were reported in your water so the GAC Unit is working. I have attached that report for your information.

If you have any questions or concerns, please call me at (803) 896-6633.

Sincerely,

Cathleen Ridgley

Cathleen Ridgley, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Enc: Invoice Form
WSW-8 GAC Installation Report

Cc: Technical File

19 Dec

UST DOCKET

UST
190T
DOCKETING

Emerald, Inc.

CONSULTING AND ENGINEERING
SERVICES IN ENVIRONMENTAL AFFAIRS

2520 TAHOE DRIVE · POST OFFICE BOX 3050 · SUMTER, SOUTH CAROLINA 29151

WEBSITE:
www.emeraldinc-us.com

TELEPHONE (803) 469-5454
FAX (803) 469-5465

April 15, 2022

UST
Quincy
APR 21 2022
PROGRAM

Quincy Hoffer, Hydrogeologist
Corrective Action and Quality Assurance Section
Underground Storage Tank Management
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, SC 29201

Site Specific Work Plan
378 Truck Stop
731 Highway 378, Edgefield, South Carolina
SCDHEC Site ID #07960
Edgefield County

Mr. Hoffer,

Please find the attached Site Specific Work Plan, proposed costs, and example chain of custody for one year of Granular Activated Carbon (GAC) filter changes at two month intervals and sampling. These GAC units are associated with the Scurry residence located at 730 Highway 378 East and Gordon residence located at 724 Highway 378 East in Edgefield, SC. If you have any questions or concerns, please feel free to contact Emerald, Inc. at 803-469-5454.

Sincerely,

William C. McClary, P.G.
Project Manager

Attachments
Appendix A - Site Specific Work Plan
Appendix B - Example Chain of Custody
Appendix C - Proposed Costs

Appendix A

Site Specific Work Plan

Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

To: Quincy Hoffer, Hydrogeologist (SCDHEC Project Manager)
From: Chad McClary, P.G. (Contractor Project Manager)
Contractor: Emerald, Inc. UST Contractor Certification Number: 67

Facility Name: 378 Truck Stop UST Permit #: 07960
Facility Address: 731 Highway 378, Edgefield, SC
Responsible Party: ____ Phone: ____
RP Address: ____
Property Owner (if different): ____
Property Owner Address: ____
Current Use of Property: ____

Scope of Work (Please check all that apply)

☐ IGWA ☐ Tier II ☑ Groundwater Sampling ☑ GAC
☐ Tier I ☐ Monitoring Well Installation ☐ Other ____

Analyses (Please check all that apply)

Groundwater/Surface Water:

☐ BTEXNMDCA (8260B) ☐ Lead ☐ BOD ☐ Methane
☐ Oxygenates (8260B) ☐ 8 RCRA Metals ☐ Nitrate ☐ Ethanol
☐ EDB (8011) ☐ TPH ☐ Sulfate ☐ Dissolved Iron
☐ PAH (8270D) ☐ pH ☐ Other ____

Drinking Water Supply Wells:

☑ BTEXNMDCA (524.2) ☐ Mecury (200.8 245.1 or 245.2) ☑ EDB (504.1)
☑ Oxygenates & Ethanol (8260B) ☐ RCRA Metals (200.8)

Soil:

☐ BTEXNM ☐ Lead ☐ RCRA Metals ☐ TPH-DRO (3550B/8015B) ☐ Grain Size
☐ PAH ☐ Oil & Grease (9071) ☐ TPH-GRO (5030B/8015B) ☐ TOC

Air:

☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

____ Soil 4 (24) Water Supply Wells ____ Air 1 (6) Field Blank
____ Monitoring Wells ____ Surface Water 1 (6) Duplicate 1 (6) Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

\# of shallow points proposed: ____ Estimated Footage: ____ feet per point
\# of deep points proposed: ____ Estimated Footage: ____ feet per point
Field Screening Methodology: ____

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

\# of shallow wells: ____ Estimated Footage: ____ feet per point
\# of deep wells: ____ Estimated Footage: ____ feet per point
\# of recovery wells: ____ Estimated Footage: ____ feet per point
Comments, if warranted:

UST Permit #: 07960 Facility Name: 378 Truck Stop

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 15 Field Work Completion: 360
Report Submittal: 365 # of Copies Provided to Property Owners: ______

Aquifer Characterization
Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal
Soil: ______ Tons Purge Water: ______ Gallons
Drilling Fluids: ______ Gallons Free-Phase Product: ______ Gallons

Additional Details For This Scope of Work
For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.

The subject site (378 Truck Stop) is located at 731 Highway 378 outside Edgefield, SC. Two nearby water supply wells (Scurry and Gordon) have been impacted by petroleum contamination and are attached to granular activated carbon (GAC) filters to aid in removal of petroleum contaminants. Prior to conducting a carbon change, Emerald, Inc. will collect samples from the Scurry and Gordon WSWs Pre and Post GAC. The samples will be collected after opening the spigot for approximately 10 minutes or until the well pump turns on. This work will be conducted under PO #4600702267.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)

Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory: ______
SCDHEC Certification Number: ______
Name of Laboratory Director: ______

____ Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.
Name of Well Driller: ______
SCLLR Certification Number: ______

____ Other variations from ACQAP. Please describe below.

Attachments

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

Appendix B

Example Chain of Custody

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A **Required** Client Information:	Section B **Required** Project Information:	Section C Invoice Information:
Company: SCDHEC	Report To: Robert Dunn	Attention:
Address: 2600 BULL STREET	Copy To:	Company Name:
COLUMBIA, SC 29201		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: 803-898-0589 Fax:	Project Name: 378 Truck Stop	Pace Project Manager: A Baioni
Requested Due Date/TAT:	Project Number: SCDHEC SITE ID# 07960,PACE CA#	Pace Profile #:

REGULATORY AGENCY

- ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
- ☑ UST ☐ RCRA ☐ OTHER ________

Site Location STATE: SC

Section D **Required** Client Information

Valid Matrix Codes MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N / Analysis Test	BTEX, N, M, 1-2DCA by 524.2	OXYS by 8260B	EDB by 504.2	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	07960 SCURRY PRE-GAC	WT	G						9				6		3				X	X	X		
2	07960 SCURRY PRE GAC DUP	WT	G						9				6		3				X	X	X		
3	07960 SCURRY POST GAC	WT	G						9				6		3				X	X	X		
4	07960 GORDON PRE-GAC	WT	G						9				6		3				X	X	X		
5	07960 GORDON POST GAC	WT	G						9				6		3				X	X	X		
6	07960 FIELD BLANK	WT	G						9				6		3				X	X	X		
7	07960 TRIP BLANK	WT	G						4				4						X	X			
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Appendix C

Proposed Costs

Healthy People. Healthy Communities.

ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
CONTRACT PO#4600702267

Facility Name: 378 Truck Stop

UST Permit #: 07960 **Cost Agreement #:** ______

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
1. **Plan Preparation**					
A1. Site-specific Work Plan	1	each	$150.00		$150.00
4. **Mob/Demob**					
B1. Personnel	6	each	$200.00		$1,200.00
18. **Miscellaneous (attach receipts)**	See Reciepts				$572.88
Service charge to remove and replace carbon/gravel filter in large operating units		each	$1,750.00		$0.00
Removal, cleaning, refurbishment and storage - of large capacity GAC units		each	$1,200.00		$0.00
Service calls to reset, repair, other service of GAC		hours	$48.00		$0.00
Lock assemblage for existing GAC housing to include lock and all necessary hardware and labor		each	$15.00		$0.00
sample collection measurements to include, duplicate, field/trip blanks are included	24	each	$35.00		$840.00
Emergency Bottoled Water		per week	$500.00		$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
A1. New GAC System Installation		each	$2,800.00		$0.00
BB. Refurbished GAC Sys. Install		each	$1,600.00		$0.00
C1. Filter replacement/removal	12	each	$675.00		$8,100.00
DD. GAC System removal, cleaning, & refurbishment		each	$550.00		$0.00
E1. GAC System housing		each	$275.00		$0.00
F. In-line particulate filter		each	$200.00		$0.00
G1. Additional piping, wiring & fittings		foot	$1.50		$0.00
TOTAL					$10,862.88

dhec
Healthy People. Healthy Communities.

APR 29 2022

UST
191
DOCKETING

RONNY LOWDER
EMERALD INC
PO BOX 3050
SUMTER SC 29151

Re: Site Specific Work Plan Approval and GAC Filter Change & Groundwater Sampling Notice to Proceed
378 Truck Stop, 731 Hwy. 378, Edgefield, SC
UST Permit # 07960
Emerald CA# 65420; Pace CA#65421
IFB-5400017572-4/25/19-EMW; PO #4600702267
Release reported October 3, 1974
SSWP received April 21, 2022
Edgefield County

Dear Mr. Lowder:

Under the terms and conditions of the referenced contract, collection of pre- and post- GAC unit groundwater samples has been approved for the listed Property Owner(s) water supply well(s).

Property Owner	Address
Scurry Residence	730 Hwy. 378 E., Edgefield, SC
Gordon Residence	724 Hwy. 378 E., Edgefield, SC

The pre- and post- GAC unit groundwater samples should be collected and submitted to Pace Analytical Services for analysis. **The GAC Maintenance Reports and invoices for each event should be submitted to the UST Division within fifteen (15) days of the date of this letter.** Please notify the UST Project manager and the contract manager at least four (4) days prior to the initiation of the approved site activities. This facility has been assigned individual Cost Agreement (CA) numbers as listed above. Please reference the CA numbers listed above and PO #4600702267 on the invoice submitted for payment. Emerald, Inc. should complete the work in accordance with the contract specifications and established schedule. The work must be conducted as outlined in the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulation.

Please be aware that the SSWP has been altered to reflect a single filter change and system sampling as the end of the contract is approaching.

In accordance with Section IV.A.4.c of the SUPERB Site Rehabilitation & Fund Access Regulation (R.61-98), the contractor shall be required to indemnify the property owner, underground storage tank owner/operator and the State of South Carolina from and against all claims, damages, losses and expenses arising out of or resulting from activity conducted by the contractor, its agents, employees or subcontractors.

On all correspondence or inquiries regarding this directive, please reference UST Permit #07960, and the Cost agreements above. If you have any questions or need further assistance, please contact me at (803) 898-0655 or by email at hofferqm@dhec.sc.gov. If you have any contract specific questions, please contact Morgan Thomas by phone (803) 898-2889 or email thomasma@dhec.sc.gov.

Sincerely,

Quincy Hoffer, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreements

cc: Morgan Thomas, UST Management Division (w/o enc)
Arthur Brown, UST Management Division (w/o enc)
Angela Baioni, Pace Analytical Services, 9800 Kincey Avenue, Ste 100, Huntersville NC 28078 (w/ Pace CA)
Technical File (w/ enc)

Approved Cost Agreement 65421

Facility: 07960 378 TRUCK STOP

HOFFERQM

PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
K ANALYSES						
	GW GROUNDWATER	1	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	7.0000	$26.000	182.00
		7	EDB BY EPA 8011	6.0000	$22.000	132.00
				Total Amount		314.00

Approved Cost Agreement **65420**

Facility: 07960 378 TRUCK STOP

HOFFERQM

PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		A1	SITE SPECIFIC WORK PLAN	1.0000	$150.000	150.00
04 MOB/DEMOB						
		B1	PERSONNEL	2.0000	$200.000	400.00
18 MISCELLANEOUS						
			SAMPLE COLLECTION MEASUREMENTS W/ DUPLICA'	4.0000	$35.000	140.00
24 GAC SYSTEM						
		C1	FILTER REPLACEMENT/REMOVAL	2.0000	$675.000	1,350.00
				Total Amount		2,040.00

378 Truck Stop
Hwy 378 west
Saluda, SC
Wilkerson Fuel

UST DOCKET
Jkch

UNDERGROUND STORAGE TANK (UST) OWNER/OPERATOR INFORMATION SHEET

1. CONTRACTOR OF CHOICE

As the UST Owner/Operator of UST Permit #07960, I would like to use the contractor or person(s)* listed below and request that they represent me for: (check one)

☐ __________________ (scope of work)

☑ all future assessments scopes.**

Name of Contractor/Person(s): Environmental Compliance Services, Inc.

Address: P.O. Box 3528

Ft. Mill, SC 29708 Kurt Blevins

Telephone Number: 704 583-2711

Note: Site rehabilitation activities must be performed by a SCDHEC Certified Site Rehabilitation Contractor in accordance with R.61-98.

*indicate if the person listed is your own employee

** if you would like the contractor to perform all future assessment activities at this and/or other facilities that have confirmed releases, please provide a list of all sites on your letterhead and provide the information requested in items 2 and 3 below within the context of the letter.

2. FINANCIAL OR FAMILIAL RELATIONSHIP

Does a financial or familial relationship, as defined below, exist between you and the contractor/person that you listed above?

_____ Yes ✓ No (please initial)

Financial Relationship: A connection or association through a material interest of sources of income, which exceed five percent of annual gross income from a business entity.

Familial Relationship: A connection or association by family or relatives, in which a family member or relative has a material interest. Family or relatives include: father, mother, son, daughter, brother, sister, uncle, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, son-in-law, daughter-in-law, stepfather, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, grandchild, great grandchild, step grandparent, step great grandparent, step grandchild, step great grandchild, or fiancée.

3. PAYMENT

You can pay the contractor and, upon the submittal of the canceled check (or a notarized statement from the contractor), be compensated from the SUPERB Account, or have payment issued directly from us to the contractor.

I request that payment be made to me after I have paid the contractor. ✓ Yes _____ No (please initial)

I request that payment be made directly to the contractor. ✓ Yes _____ No (please initial)

Note: All costs must receive prior financial approval from the Department regardless of payment option.

Underground Storage Tank Owner/Operator Signature: Wilkerson Fuel Co., Inc By: Thomas K [signature], VP

Date: May 4, 2010

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

DEC 08 2010

20dech

UST DOCKET

LEROY DIGGS
P O BOX 25664
LOS ANGELES CA 90025-0664

Re: Results for the Sampling of Your Water Supply Well
378 Truck Stop, 731 Hwy 378 E, Edgefield, SC
UST Permit # 07960
Release Reported October 3, 1974
Tier I Assessment Report received June 24, 2010
Water Supply Well Laboratory Report
Edgefield County

Dear Mr. Diggs:

As you are aware, the Underground Storage Tank (UST) Management Division directed Wilkerson Fuel Company, Incorporated to sample your water supply well (WSW) as part of an ongoing assessment to determine the extent and severity of a petroleum release. Based on the reports submitted by Environmental Compliance Services, Inc. on behalf of the client, I am pleased to report that the laboratory results documented no impact of petroleum chemicals of concern to your well. The analytical results from both sampling events of your well, designated as WSW-3, are enclosed for your information.

The UST Management Division will continue to direct Wilkerson Fuel Company, Inc. to sample your WSW in the future to monitor groundwater quality. Your continued cooperation is appreciated.

On all correspondence regarding this site, please reference UST permit # 07960. Please feel free to contact me at (803) 896-6633, fax me at (803) 896-6245 or e-mail me at ridglect@dhec.sc.gov if you have questions or need additional information.

Sincerely,

Cathleen Ridgley

Cathleen Ridgley, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Laboratory Analytical Results for WSW-3 Sampled May 24, 2010
Laboratory Analytical Results for WSW-3 Sampled October 19, 2010

cc: Frank Wilkerson, Wilkerson Fuel Company, Inc., P.O. Box 2835, Rock Hill, SC 29732 (w/enc)
Environmental Compliance Services, P.O. Box 3528, Fort Mill, SC 29708 (w/o enc)
Chris McCluskey, Region 1 EQC District, Greenwood EQC Office, (w/enc)
Technical File (w/enc)

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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9270259

Sample: WSW-2 **Lab ID: 9270259003** Collected: 05/24/10 11:25 Received: 05/26/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 14:36	106-93-4	
1-Chloro-2-bromopropane (S)	92	%	60-140		1	05/28/10 04:00	05/29/10 14:36	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 16:13	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 16:13	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 16:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 16:13	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 16:13	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 16:13	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 16:13	95-47-6	
4-Bromofluorobenzene (S)	93	%	70-130		1		06/02/10 16:13	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		06/02/10 16:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		06/02/10 16:13	17060-07-0	
Toluene-d8 (S)	94	%	70-130		1		06/02/10 16:13	2037-26-5	

Sample: WSW-3 **Lab ID: 9270259004** Collected: 05/24/10 11:45 Received: 05/26/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 15:16	106-93-4	
1-Chloro-2-bromopropane (S)	104	%	60-140		1	05/28/10 04:00	05/29/10 15:16	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 16:39	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 16:39	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 16:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 16:39	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 16:39	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 16:39	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 16:39	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		06/02/10 16:39	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/02/10 16:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		06/02/10 16:39	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		06/02/10 16:39	2037-26-5	

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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-3 Lab ID: 9280235051 Collected: 10/19/10 13:00 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/21/10 13:57	10/22/10 03:06	106-93-4	
1-Chloro-2-bromopropane (S)	85	%	60-140		1	10/21/10 13:57	10/22/10 03:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 12:47	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 12:47	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 12:47	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 12:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 12:47	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 12:47	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 12:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 12:47	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130		1		10/23/10 12:47	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		10/23/10 12:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		10/23/10 12:47	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		10/23/10 12:47	2037-26-5	

Sample: WSW-4 Lab ID: 9280235052 Collected: 10/19/10 12:45 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:57	10/22/10 03:26	106-93-4	
1-Chloro-2-bromopropane (S)	100	%	60-140		1	10/21/10 13:57	10/22/10 03:26	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 13:05	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 13:05	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 13:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 13:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 13:05	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 13:05	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 13:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 13:05	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130		1		10/23/10 13:05	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		10/23/10 13:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		10/23/10 13:05	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/23/10 13:05	2037-26-5	

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C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment

DEC 08 2010

21tuck
UST DOCKET

HATTIE & RICHARD DORMEYER COATES
736 HWY 378 EAST
EDGEFIELD SC 29824-4102

Re: Results for the Sampling of Your Water Supply Well
378 Truck Stop, 731 Hwy 378 E, Edgefield, SC
UST Permit # 07960
Release Reported October 3, 1974
Tier I Assessment Report received June 24, 2010
Water Supply Well Laboratory Report
Edgefield County

Dear Mr. And Ms. Coates:

As you are aware, the Underground Storage Tank (UST) Management Division directed Wilkerson Fuel Company, Incorporated to sample your water supply well (WSW) as part of an ongoing assessment to determine the extent and severity of a petroleum release. Based on the reports submitted by Environmental Compliance Services, Inc. on behalf of the client, I am pleased to report that the laboratory results documented no impact of petroleum chemicals of concern to your well. The analytical results from both sampling events of your well, designated as WSW-2, are enclosed for your information.

The UST Management Division will continue to direct Wilkerson Fuel Company, Inc. to sample your WSW in the future to monitor groundwater quality. Your continued cooperation is appreciated.

On all correspondence regarding this site, please reference UST permit # 07960. Please feel free to contact me at (803) 896-6633, fax me at (803) 896-6245 or e-mail me at ridglect@dhec.sc.gov if you have questions or need additional information.

Sincerely,

Cathleen Ridgley

Cathleen Ridgley, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Laboratory Analytical Results for WSW-2 Sampled May 24, 2010
Laboratory Analytical Results for WSW-2 Sampled October 19, 2010

cc: Frank Wilkerson, Wilkerson Fuel Company, Inc., P.O. Box 2835, Rock Hill, SC 29732 (w/enc)
Environmental Compliance Services, P.O. Box 3528, Fort Mill, SC 29708 (w/o enc)
Chris McCluskey, Region 1 EQC District, Greenwood EQC Office, (w/enc)
Technical File (w/enc)

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9270259

Sample: WSW-2 Lab ID: 9270259003 Collected: 05/24/10 11:25 Received: 05/26/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 14:36	106-93-4	
1-Chloro-2-bromopropane (S)	92	%	60-140		1	05/28/10 04:00	05/29/10 14:36	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 16:13	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 16:13	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 16:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 16:13	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 16:13	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 16:13	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 16:13	95-47-6	
4-Bromofluorobenzene (S)	93	%	70-130		1		06/02/10 16:13	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		06/02/10 16:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		06/02/10 16:13	17060-07-0	
Toluene-d8 (S)	94	%	70-130		1		06/02/10 16:13	2037-26-5	

Sample: WSW-3 Lab ID: 9270259004 Collected: 05/24/10 11:45 Received: 05/26/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 15:16	106-93-4	
1-Chloro-2-bromopropane (S)	104	%	60-140		1	05/28/10 04:00	05/29/10 15:16	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 16:39	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 16:39	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 16:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 16:39	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 16:39	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 16:39	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 16:39	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		06/02/10 16:39	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/02/10 16:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		06/02/10 16:39	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		06/02/10 16:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-1 **Lab ID: 9280235049** Collected: 10/19/10 14:05 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:57	10/22/10 02:06	106-93-4	
1-Chloro-2-bromopropane (S)	86	%	60-140		1	10/21/10 13:57	10/22/10 02:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/21/10 15:05	71-43-2	
1,2-Dichloroethane	**2.1J**	ug/L	5.0	1.3	1		10/21/10 15:05	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/21/10 15:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/21/10 15:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/21/10 15:05	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/21/10 15:05	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/21/10 15:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/21/10 15:05	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/21/10 15:05	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		10/21/10 15:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		10/21/10 15:05	17060-07-0	
Toluene-d8 (S)	94	%	70-130		1		10/21/10 15:05	2037-26-5	

Sample: WSW-2 **Lab ID: 9280235050** Collected: 10/19/10 13:55 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:57	10/22/10 02:46	106-93-4	
1-Chloro-2-bromopropane (S)	90	%	60-140		1	10/21/10 13:57	10/22/10 02:46	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 12:29	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 12:29	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 12:29	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 12:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 12:29	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 12:29	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 12:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 12:29	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130		1		10/23/10 12:29	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		10/23/10 12:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		10/23/10 12:29	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/23/10 12:29	2037-26-5	

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DEC 08 2010

ANDREW & KATHALENE STEVENS
752 HWY 378 E
EDGEFIELD SC 29824-4102

22 Yeal
UST DOCKET

Re: Results for the Sampling of Your Water Supply Well
378 Truck Stop, 731 Hwy 378 E, Edgefield, SC
UST Permit # 07960
Release Reported October 3, 1974
Tier I Assessment Report received June 24, 2010
Water Supply Well Laboratory Report
Edgefield County

Dear Mr. And Ms. Stevens:

As you are aware, the Underground Storage Tank (UST) Management Division directed Wilkerson Fuel Company, Incorporated to sample your water supply well (WSW) as part of an ongoing assessment to determine the extent and severity of a petroleum release. Based on the reports submitted by Environmental Compliance Services, Inc. on behalf of the client, I am pleased to report that the laboratory results documented no impact of petroleum chemicals of concern to your well. The analytical results from both sampling events of your well, designated as WSW-4, are enclosed for your information.

The UST Management Division will continue to direct Wilkerson Fuel Company, Inc. to sample your WSW in the future to monitor groundwater quality. Your continued cooperation is appreciated.

On all correspondence regarding this site, please reference UST permit # 07960. Please feel free to contact me at (803) 896-6633, fax me at (803) 896-6245 or e-mail me at ridglect@dhec.sc.gov if you have questions or need additional information.

Sincerely,

Cathleen Ridgley

Cathleen Ridgley, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Laboratory Analytical Results for WSW-4 Sampled May 24, 2010
Laboratory Analytical Results for WSW-4 Sampled October 19, 2010

cc: Frank Wilkerson, Wilkerson Fuel Company, Inc., P.O. Box 2835, Rock Hill, SC 29732 (w/enc)
Environmental Compliance Services, P.O. Box 3528, Fort Mill, SC 29708 (w/o enc)
Chris McCluskey, Region 1 EQC District, Greenwood EQC Office, (w/enc)
Technical File (w/enc)

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9270259

Sample: WSW-4 **Lab ID: 9270259005** Collected: 05/24/10 12:00 Received: 05/26/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 15:36	106-93-4	
1-Chloro-2-bromopropane (S)	111	%	60-140		1	05/28/10 04:00	05/29/10 15:36	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 17:04	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 17:04	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 17:04	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 17:04	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 17:04	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 17:04	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 17:04	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		06/02/10 17:04	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		06/02/10 17:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		06/02/10 17:04	17060-07-0	
Toluene-d8 (S)	94	%	70-130		1		06/02/10 17:04	2037-26-5	

Sample: WSW-5 **Lab ID: 9270259006** Collected: 05/24/10 13:05 Received: 05/26/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 15:56	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	05/28/10 04:00	05/29/10 15:56	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 17:30	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 17:30	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 17:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 17:30	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 17:30	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 17:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 17:30	95-47-6	
4-Bromofluorobenzene (S)	92	%	70-130		1		06/02/10 17:30	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		06/02/10 17:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		06/02/10 17:30	17060-07-0	
Toluene-d8 (S)	89	%	70-130		1		06/02/10 17:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-3 **Lab ID: 9280235051** Collected: 10/19/10 13:00 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/21/10 13:57	10/22/10 03:06	106-93-4	
1-Chloro-2-bromopropane (S)	85	%	60-140		1	10/21/10 13:57	10/22/10 03:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 12:47	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 12:47	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 12:47	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 12:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 12:47	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 12:47	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 12:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 12:47	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130		1		10/23/10 12:47	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		10/23/10 12:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		10/23/10 12:47	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		10/23/10 12:47	2037-26-5	

Sample: WSW-4 **Lab ID: 9280235052** Collected: 10/19/10 12:45 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:57	10/22/10 03:26	106-93-4	
1-Chloro-2-bromopropane (S)	100	%	60-140		1	10/21/10 13:57	10/22/10 03:26	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 13:05	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 13:05	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 13:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 13:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 13:05	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 13:05	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 13:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 13:05	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130		1		10/23/10 13:05	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		10/23/10 13:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		10/23/10 13:05	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/23/10 13:05	2037-26-5	

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C. Earl Hunter, Commissioner

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DEC 08 2010

HORACE BAKER
745 HWY 378 E
EDGEFIELD SC 29824-4103

23 tech
UST DOCKET

Re: Results for the Sampling of Your Water Supply Well
378 Truck Stop, 731 Hwy 378 E, Edgefield, SC
UST Permit # 07960
Release Reported October 3, 1974
Tier I Assessment Report received June 24, 2010
Water Supply Well Laboratory Report
Edgefield County

Dear Mr. Baker:

As you are aware, the Underground Storage Tank (UST) Management Division directed Wilkerson Fuel Company, Incorporated to sample your water supply well (WSW) as part of an ongoing assessment to determine the extent and severity of a petroleum release. Based on the reports submitted by Environmental Compliance Services, Inc. on behalf of the client, I am pleased to report that the laboratory results documented no impact of petroleum chemicals of concern to your well. The analytical results from both sampling events of your well, designated as WSW-5, are enclosed for your information.

The UST Management Division will continue to direct Wilkerson Fuel Company, Inc. to sample your WSW in the future to monitor groundwater quality. Your continued cooperation is appreciated.

On all correspondence regarding this site, please reference UST permit # 07960. Please feel free to contact me at (803) 896-6633, fax me at (803) 896-6245 or e-mail me at ridglect@dhec.sc.gov if you have questions or need additional information.

Sincerely,

Cathleen Ridgley

Cathleen Ridgley, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Laboratory Analytical Results for WSW-5 Sampled May 24, 2010
Laboratory Analytical Results for WSW-5 Sampled October 19, 2010

cc: Frank Wilkerson, Wilkerson Fuel Company, Inc., P.O. Box 2835, Rock Hill, SC 29732 (w/enc)
Environmental Compliance Services, P.O. Box 3528, Fort Mill, SC 29708 (w/o enc)
Chris McCluskey, Region 1 EQC District, Greenwood EQC Office, (w/enc)
Technical File (w/enc)

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9270259

Sample: WSW-4 **Lab ID: 9270259005** Collected: 05/24/10 12:00 Received: 05/26/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 15:36	106-93-4	
1-Chloro-2-bromopropane (S)	111	%	60-140		1	05/28/10 04:00	05/29/10 15:36	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 17:04	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 17:04	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 17:04	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 17:04	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 17:04	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 17:04	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 17:04	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		06/02/10 17:04	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		06/02/10 17:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		06/02/10 17:04	17060-07-0	
Toluene-d8 (S)	94	%	70-130		1		06/02/10 17:04	2037-26-5	

Sample: WSW-5 **Lab ID: 9270259006** Collected: 05/24/10 13:05 Received: 05/26/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 15:56	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	05/28/10 04:00	05/29/10 15:56	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 17:30	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 17:30	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 17:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 17:30	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 17:30	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 17:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 17:30	95-47-6	
4-Bromofluorobenzene (S)	92	%	70-130		1		06/02/10 17:30	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		06/02/10 17:30	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		06/02/10 17:30	17060-07-0	
Toluene-d8 (S)	89	%	70-130		1		06/02/10 17:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-5 **Lab ID: 9280235053** Collected: 10/19/10 13:45 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/21/10 13:57	10/22/10 03:46	106-93-4	
1-Chloro-2-bromopropane (S)	91	%	60-140		1	10/21/10 13:57	10/22/10 03:46	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 13:24	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 13:24	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 13:24	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 13:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 13:24	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 13:24	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 13:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 13:24	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		10/23/10 13:24	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		10/23/10 13:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		10/23/10 13:24	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		10/23/10 13:24	2037-26-5	

Sample: WSW-6 **Lab ID: 9280235054** Collected: 10/19/10 13:30 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:57	10/22/10 04:06	106-93-4	
1-Chloro-2-bromopropane (S)	88	%	60-140		1	10/21/10 13:57	10/22/10 04:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 13:42	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 13:42	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 13:42	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 13:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 13:42	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 13:42	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 13:42	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 13:42	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 13:42	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		10/23/10 13:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		10/23/10 13:42	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/23/10 13:42	2037-26-5	

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C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

DEC 08 2010

SHIRLEY J COATES
328 FLORENCE STREET NW
AIKEN SC 29801-6920

244ed
UST DOCKET

Re: Results for the Sampling of Your Water Supply Well
378 Truck Stop, 731 Hwy 378 E, Edgefield, SC
UST Permit # 07960
Release Reported October 3, 1974
Tier I Assessment Report received June 24, 2010
Water Supply Well Laboratory Report
Edgefield County

Dear Ms. Coates:

As you are aware, the Underground Storage Tank (UST) Management Division directed Wilkerson Fuel Company, Incorporated to sample your water supply well (WSW) as part of an ongoing assessment to determine the extent and severity of a petroleum release. Based on the reports submitted by Environmental Compliance Services, Inc. on behalf of the client, I am pleased to report that the laboratory results documented no impact of petroleum chemicals of concern to your well. The analytical results from both sampling events of your well, designated as WSW-6, are enclosed for your information.

The UST Management Division will continue to direct Wilkerson Fuel Company, Inc. to sample your WSW in the future to monitor groundwater quality. Your continued cooperation is appreciated.

On all correspondence regarding this site, please reference UST permit # 07960. Please feel free to contact me at (803) 896-6633, fax me at (803) 896-6245 or e-mail me at ridglect@dhec.sc.gov if you have questions or need additional information.

Sincerely,

Cathleen Ridgley

Cathleen Ridgley, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Laboratory Analytical Results for WSW-6 Sampled May 24, 2010
Laboratory Analytical Results for WSW-6 Sampled October 19, 2010

cc: Frank Wilkerson, Wilkerson Fuel Company, Inc., P.O. Box 2835, Rock Hill, SC 29732 (w/enc)
Environmental Compliance Services, P.O. Box 3528, Fort Mill, SC 29708 (w/o enc)
Chris McCluskey, Region 1 EQC District, Greenwood EQC Office, (w/enc)
Technical File (w/enc)

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9270259

Sample: WSW-6 | **Lab ID: 9270259007** | Collected: 05/24/10 13:45 | Received: 05/26/10 16:45 | Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 16:16	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	05/28/10 04:00	05/29/10 16:16	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 17:56	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 17:56	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 17:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 17:56	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 17:56	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 17:56	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 17:56	95-47-6	
4-Bromofluorobenzene (S)	90	%	70-130		1		06/02/10 17:56	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/02/10 17:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		06/02/10 17:56	17060-07-0	
Toluene-d8 (S)	91	%	70-130		1		06/02/10 17:56	2037-26-5	

Sample: WSW-7 | **Lab ID: 9270259008** | Collected: 05/24/10 14:00 | Received: 05/26/10 16:45 | Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 16:37	106-93-4	
1-Chloro-2-bromopropane (S)	108	%	60-140		1	05/28/10 04:00	05/29/10 16:37	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 18:21	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 18:21	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 18:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 18:21	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 18:21	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 18:21	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 18:21	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		06/02/10 18:21	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/02/10 18:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		06/02/10 18:21	17060-07-0	
Toluene-d8 (S)	92	%	70-130		1		06/02/10 18:21	2037-26-5	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-5 Lab ID: **9280235053** Collected: 10/19/10 13:45 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/21/10 13:57	10/22/10 03:46	106-93-4	
1-Chloro-2-bromopropane (S)	91	%	60-140		1	10/21/10 13:57	10/22/10 03:46	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 13:24	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 13:24	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 13:24	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 13:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 13:24	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 13:24	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 13:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 13:24	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		10/23/10 13:24	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		10/23/10 13:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		10/23/10 13:24	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		10/23/10 13:24	2037-26-5	

Sample: WSW-6 Lab ID: **9280235054** Collected: 10/19/10 13:30 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:57	10/22/10 04:06	106-93-4	
1-Chloro-2-bromopropane (S)	88	%	60-140		1	10/21/10 13:57	10/22/10 04:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 13:42	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 13:42	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 13:42	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 13:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 13:42	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 13:42	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 13:42	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 13:42	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 13:42	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		10/23/10 13:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		10/23/10 13:42	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/23/10 13:42	2037-26-5	

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23 ltr
UST
DOCKET

NORTHSIDE VOLUNTEER FIRE DEPT
719 HWY 378 E
EDGEFIELD SC 29824-4103

Re: Results for the Sampling of Your Water Supply Well
378 Truck Stop, 731 Hwy 378 E, Edgefield, SC
UST Permit # 07960
Release Reported October 3, 1974
Tier I Assessment Report received June 24, 2010
Water Supply Well Laboratory Report
Edgefield County

To Whom It May Concern:

As you are aware, the Underground Storage Tank (UST) Management Division directed Wilkerson Fuel Company, Incorporated to sample your water supply well (WSW) as part of an ongoing assessment to determine the extent and severity of a petroleum release. Based on the reports submitted by Environmental Compliance Services, Inc. on behalf of the client, I am pleased to report that the laboratory results documented no impact of petroleum chemicals of concern to your well. The analytical results from both sampling events of your well, designated as WSW-7, are enclosed for your information.

The UST Management Division will continue to direct Wilkerson Fuel Company, Inc. to sample your WSW in the future to monitor groundwater quality. Your continued cooperation is appreciated.

On all correspondence regarding this site, please reference UST permit # 07960. Please feel free to contact me at (803) 896-6633, fax me at (803) 896-6245 or e-mail me at ridglect@dhec.sc.gov if you have questions or need additional information.

Sincerely,

Cathleen Ridgley

Cathleen Ridgley, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Laboratory Analytical Results for WSW-7 Sampled May 24, 2010
Laboratory Analytical Results for WSW-7 Sampled October 19, 2010

cc: Frank Wilkerson, Wilkerson Fuel Company, Inc., P.O. Box 2835, Rock Hill, SC 29732 (w/enc)
Environmental Compliance Services, P.O. Box 3528, Fort Mill, SC 29708 (w/o enc)
Chris McCluskey, Region 1 EQC District, Greenwood EQC Office, (w/enc)
Technical File (w/enc)

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9270259

Sample: WSW-6 | **Lab ID: 9270259007** | Collected: 05/24/10 13:45 | Received: 05/26/10 16:45 | Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 16:16	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	05/28/10 04:00	05/29/10 16:16	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 17:56	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 17:56	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 17:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 17:56	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 17:56	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 17:56	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 17:56	95-47-6	
4-Bromofluorobenzene (S)	90	%	70-130		1		06/02/10 17:56	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/02/10 17:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		06/02/10 17:56	17060-07-0	
Toluene-d8 (S)	91	%	70-130		1		06/02/10 17:56	2037-26-5	

Sample: WSW-7 | **Lab ID: 9270259008** | Collected: 05/24/10 14:00 | Received: 05/26/10 16:45 | Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 16:37	106-93-4	
1-Chloro-2-bromopropane (S)	108	%	60-140		1	05/28/10 04:00	05/29/10 16:37	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 18:21	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 18:21	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 18:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 18:21	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 18:21	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 18:21	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 18:21	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		06/02/10 18:21	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/02/10 18:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		06/02/10 18:21	17060-07-0	
Toluene-d8 (S)	92	%	70-130		1		06/02/10 18:21	2037-26-5	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-7 **Lab ID: 9280235055** Collected: 10/19/10 14:15 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:57	10/22/10 04:26	106-93-4	
1-Chloro-2-bromopropane (S)	89	%	60-140		1	10/21/10 13:57	10/22/10 04:26	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 14:00	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 14:00	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 14:00	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 14:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 14:00	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 14:00	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 14:00	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 14:00	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 14:00	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		10/23/10 14:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		10/23/10 14:00	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/23/10 14:00	2037-26-5	

Sample: WSW-8 **Lab ID: 9280235056** Collected: 10/19/10 14:30 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:57	10/22/10 04:46	106-93-4	
1-Chloro-2-bromopropane (S)	93	%	60-140		1	10/21/10 13:57	10/22/10 04:46	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 14:19	71-43-2	
1,2-Dichloroethane	**9.2**	ug/L	5.0	1.3	1		10/23/10 14:19	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 14:19	100-41-4	
Methyl-tert-butyl ether	**3.6J**	ug/L	5.0	2.0	1		10/23/10 14:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 14:19	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 14:19	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 14:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 14:19	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 14:19	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		10/23/10 14:19	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/23/10 14:19	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		10/23/10 14:19	2037-26-5	

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DEC 0 8 2010

26tech
UST
DOCKET

BENNIE CULBREATH
68 FAULKNER MOUNTAIN ROAD
EDGEFIELD SC 29824-4112

Re: Results for the Sampling of Your Water Supply Well
378 Truck Stop, 731 Hwy 378 E, Edgefield, SC
UST Permit # 07960
Release Reported October 3, 1974
Tier I Assessment Report received June 24, 2010
Water Supply Well Laboratory Report
Edgefield County

Dear Mr. Culbreath:

As you are aware, the Underground Storage Tank (UST) Management Division directed Wilkerson Fuel Company, Incorporated to sample your water supply well (WSW) as part of an ongoing assessment to determine the extent and severity of a petroleum release. Based on the reports submitted by Environmental Compliance Services, Inc. on behalf of the client, I am pleased to report that the laboratory results documented no impact of petroleum chemicals of concern to your well. The analytical results from both sampling events of your well, designated as WSW-10, are enclosed for your information.

The UST Management Division will continue to direct Wilkerson Fuel Company, Inc. to sample your WSW in the future to monitor groundwater quality. Your continued cooperation is appreciated.

On all correspondence regarding this site, please reference UST permit # 07960. Please feel free to contact me at (803) 896-6633, fax me at (803) 896-6245 or e-mail me at ridglect@dhec.sc.gov if you have questions or need additional information.

Sincerely,

Cathleen Ridgley

Cathleen Ridgley, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Laboratory Analytical Results for WSW-10 Sampled May 24, 2010
Laboratory Analytical Results for WSW-10 Sampled October 19, 2010

cc: Frank Wilkerson, Wilkerson Fuel Company, Inc., P.O. Box 2835, Rock Hill, SC 29732 (w/enc)
Environmental Compliance Services, P.O. Box 3528, Fort Mill, SC 29708 (w/o enc)
Chris McCluskey, Region 1 EQC District, Greenwood EQC Office, (w/enc)
Technical File (w/enc)

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9270259

Sample: WSW-10 Lab ID: **9270259011** Collected: 05/24/10 16:10 Received: 05/26/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 17:38	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	05/28/10 04:00	05/29/10 17:38	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 19:38	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 19:38	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 19:38	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 19:38	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 19:38	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 19:38	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 19:38	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130		1		06/02/10 19:38	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		06/02/10 19:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		06/02/10 19:38	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		06/02/10 19:38	2037-26-5	

Sample: WSW-11 Lab ID: **9270259012** Collected: 05/24/10 16:35 Received: 05/26/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 17:58	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	05/28/10 04:00	05/29/10 17:58	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 20:03	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 20:03	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 20:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 20:03	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 20:03	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 20:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 20:03	95-47-6	
4-Bromofluorobenzene (S)	95	%	70-130		1		06/02/10 20:03	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/02/10 20:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		06/02/10 20:03	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		06/02/10 20:03	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-9 Lab ID: 9280235057 Collected: 10/19/10 14:40 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/21/10 13:57	10/22/10 05:06	106-93-4	
1-Chloro-2-bromopropane (S)	92	%	60-140		1	10/21/10 13:57	10/22/10 05:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 14:37	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 14:37	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 14:37	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 14:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 14:37	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 14:37	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 14:37	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 14:37	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		10/23/10 14:37	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		10/23/10 14:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/23/10 14:37	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/23/10 14:37	2037-26-5	

Sample: WSW-10 Lab ID: 9280235058 Collected: 10/19/10 14:50 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/21/10 13:57	10/22/10 05:26	106-93-4	
1-Chloro-2-bromopropane (S)	91	%	60-140		1	10/21/10 13:57	10/22/10 05:26	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 14:55	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 14:55	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 14:55	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 14:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 14:55	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 14:55	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 14:55	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 14:55	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 14:55	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		10/23/10 14:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/23/10 14:55	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/23/10 14:55	2037-26-5	

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JOHNNIE JAMES & SOPHIE J BOWMAN LIFE ESTATE
71 FAULKNER MOUNTAIN ROAD
EDGEFIELD SC 29824-4113

Re: Results for the Sampling of Your Water Supply Well
378 Truck Stop, 731 Hwy 378 E, Edgefield, SC
UST Permit # 07960
Release Reported October 3, 1974
Tier I Assessment Report received June 24, 2010
Water Supply Well Laboratory Report
Edgefield County

To Whom It May Concern:

As you are aware, the Underground Storage Tank (UST) Management Division directed Wilkerson Fuel Company, Incorporated to sample your water supply well (WSW) as part of an ongoing assessment to determine the extent and severity of a petroleum release. Based on the reports submitted by Environmental Compliance Services, Inc. on behalf of the client, I am pleased to report that the laboratory results documented no impact of petroleum chemicals of concern to your well. The analytical results from both sampling events of your well, designated as WSW-9, are enclosed for your information.

The UST Management Division will continue to direct Wilkerson Fuel Company, Inc. to sample your WSW in the future to monitor groundwater quality. Your continued cooperation is appreciated.

On all correspondence regarding this site, please reference UST permit # 07960. Please feel free to contact me at (803) 896-6633, fax me at (803) 896-6245 or e-mail me at ridglect@dhec.sc.gov if you have questions or need additional information.

Sincerely,

Cathleen Ridgley

Cathleen Ridgley, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Laboratory Analytical Results for WSW-9 Sampled May 24, 2010
Laboratory Analytical Results for WSW-9 Sampled October 19, 2010

cc: Frank Wilkerson, Wilkerson Fuel Company, Inc., P.O. Box 2835, Rock Hill, SC 29732 (w/enc)
Environmental Compliance Services, P.O. Box 3528, Fort Mill, SC 29708 (w/o enc)
Chris McCluskey, Region 1 EQC District, Greenwood EQC Office, (w/enc)
Technical File (w/enc)

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9270259

Sample: WSW-8 Lab ID: **9270259009** Collected: 05/24/10 15:25 Received: 05/26/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 16:57	106-93-4	
1-Chloro-2-bromopropane (S)	106	%	60-140		1	05/28/10 04:00	05/29/10 16:57	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 18:47	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 18:47	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 18:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 18:47	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 18:47	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 18:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 18:47	95-47-6	
4-Bromofluorobenzene (S)	95	%	70-130		1		06/02/10 18:47	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		06/02/10 18:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		06/02/10 18:47	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		06/02/10 18:47	2037-26-5	

Sample: WSW-9 Lab ID: **9270259010** Collected: 05/24/10 15:45 Received: 05/26/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 17:17	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	05/28/10 04:00	05/29/10 17:17	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 19:12	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 19:12	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 19:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 19:12	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 19:12	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 19:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 19:12	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130		1		06/02/10 19:12	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		06/02/10 19:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		06/02/10 19:12	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		06/02/10 19:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-9 **Lab ID: 9280235057** Collected: 10/19/10 14:40 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/21/10 13:57	10/22/10 05:06	106-93-4	
1-Chloro-2-bromopropane (S)	92	%	60-140		1	10/21/10 13:57	10/22/10 05:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 14:37	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 14:37	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 14:37	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 14:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 14:37	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 14:37	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 14:37	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 14:37	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		10/23/10 14:37	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		10/23/10 14:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/23/10 14:37	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/23/10 14:37	2037-26-5	

Sample: WSW-10 **Lab ID: 9280235058** Collected: 10/19/10 14:50 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/21/10 13:57	10/22/10 05:26	106-93-4	
1-Chloro-2-bromopropane (S)	91	%	60-140		1	10/21/10 13:57	10/22/10 05:26	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 14:55	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 14:55	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 14:55	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 14:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 14:55	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 14:55	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 14:55	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 14:55	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 14:55	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		10/23/10 14:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/23/10 14:55	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/23/10 14:55	2037-26-5	

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C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

28 Leech
UST DOCKET

DEC 08 2010

MITCHELL LUTHER LIFE ESTATE
66 FAULKNER MOUNTAIN RD
EDGEFIELD SC 29824-4112

Re: Results for the Sampling of Your Water Supply Well
378 Truck Stop, 731 Hwy 378 E, Edgefield, SC
UST Permit # 07960
Release Reported October 3, 1974
Tier I Assessment Report received June 24, 2010
Water Supply Well Laboratory Report
Edgefield County

To Whom It May Concern:

As you are aware, the Underground Storage Tank (UST) Management Division directed Wilkerson Fuel Company, Incorporated to sample your water supply well (WSW) as part of an ongoing assessment to determine the extent and severity of a petroleum release. Based on the reports submitted by Environmental Compliance Services, Inc. on behalf of the client, I am pleased to report that the laboratory results documented no impact of petroleum chemicals of concern to your well. The analytical results from both sampling events of your well, designated as WSW-11, are enclosed for your information.

The UST Management Division will continue to direct Wilkerson Fuel Company, Inc. to sample your WSW in the future to monitor groundwater quality. Your continued cooperation is appreciated.

On all correspondence regarding this site, please reference UST permit # 07960. Please feel free to contact me at (803) 896-6633, fax me at (803) 896-6245 or e-mail me at ridglect@dhec.sc.gov if you have questions or need additional information.

Sincerely,

Cathleen Ridgley

Cathleen Ridgley, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Laboratory Analytical Results for WSW-11 Sampled May 24, 2010
Laboratory Analytical Results for WSW-11 Sampled October 19, 2010

cc: Frank Wilkerson, Wilkerson Fuel Company, Inc., P.O. Box 2835, Rock Hill, SC 29732 (w/enc)
Environmental Compliance Services, P.O. Box 3528, Fort Mill, SC 29708 (w/o enc)
Chris McCluskey, Region 1 EQC District, Greenwood EQC Office, (w/enc)
Technical File (w/enc)

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9270259

Sample: WSW-10 **Lab ID: 9270259011** Collected: 05/24/10 16:10 Received: 05/26/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 17:38	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	05/28/10 04:00	05/29/10 17:38	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 19:38	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 19:38	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 19:38	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 19:38	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 19:38	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 19:38	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 19:38	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130		1		06/02/10 19:38	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		06/02/10 19:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		06/02/10 19:38	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		06/02/10 19:38	2037-26-5	

Sample: WSW-11 **Lab ID: 9270259012** Collected: 05/24/10 16:35 Received: 05/26/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 17:58	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	05/28/10 04:00	05/29/10 17:58	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 20:03	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 20:03	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 20:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 20:03	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 20:03	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 20:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 20:03	95-47-6	
4-Bromofluorobenzene (S)	95	%	70-130		1		06/02/10 20:03	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		06/02/10 20:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		06/02/10 20:03	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		06/02/10 20:03	2037-26-5	

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-11 **Lab ID: 9280235059** Collected: 10/19/10 15:00 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:58	10/22/10 05:46	106-93-4	
1-Chloro-2-bromopropane (S)	90	%	60-140		1	10/21/10 13:58	10/22/10 05:46	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 15:13	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 15:13	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 15:13	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 15:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 15:13	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 15:13	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 15:13	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 15:13	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 15:13	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		10/23/10 15:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		10/23/10 15:13	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		10/23/10 15:13	2037-26-5	

Sample: WSW-12 **Lab ID: 9280235060** Collected: 10/19/10 15:05 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:58	10/22/10 06:06	106-93-4	
1-Chloro-2-bromopropane (S)	92	%	60-140		1	10/21/10 13:58	10/22/10 06:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 15:32	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 15:32	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 15:32	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 15:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 15:32	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 15:32	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 15:32	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 15:32	95-47-6	
4-Bromofluorobenzene (S)	95	%	70-130		1		10/23/10 15:32	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		10/23/10 15:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		10/23/10 15:32	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/23/10 15:32	2037-26-5	

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C. Earl Hunter, Commissioner

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DEC 08 2010

DERRICK SIMPKINS
64 FAULKNER MOUNTAIN ROAD
EDGEFIELD SC 29824-4112

29dech
UST DOCKET

Re: Results for the Sampling of Your Water Supply Well
378 Truck Stop, 731 Hwy 378 E, Edgefield, SC
UST Permit # 07960
Release Reported October 3, 1974
Tier I Assessment Report received June 24, 2010
Water Supply Well Laboratory Report
Edgefield County

Dear Mr. Simpkins:

As you are aware, the Underground Storage Tank (UST) Management Division directed Wilkerson Fuel Company, Incorporated to sample your water supply well (WSW) as part of an ongoing assessment to determine the extent and severity of a petroleum release. Based on the reports submitted by Environmental Compliance Services, Inc. on behalf of the client, I am pleased to report that the laboratory results documented no impact of petroleum chemicals of concern to your well. The analytical results from both sampling events of your well, designated as WSW-12, are enclosed for your information.

The UST Management Division will continue to direct Wilkerson Fuel Company, Inc. to sample your WSW in the future to monitor groundwater quality. Your continued cooperation is appreciated.

On all correspondence regarding this site, please reference UST permit # 07960. Please feel free to contact me at (803) 896-6633, fax me at (803) 896-6245 or e-mail me at ridglect@dhec.sc.gov if you have questions or need additional information.

Sincerely,

Cathleen Ridgley

Cathleen Ridgley, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Laboratory Analytical Results for WSW-12 Sampled May 24, 2010
Laboratory Analytical Results for WSW-12 Sampled October 19, 2010

cc: Frank Wilkerson, Wilkerson Fuel Company, Inc., P.O. Box 2835, Rock Hill, SC 29732 (w/enc)
Environmental Compliance Services, P.O. Box 3528, Fort Mill, SC 29708 (w/o enc)
Chris McCluskey, Region 1 EQC District, Greenwood EQC Office, (w/enc)
Technical File (w/enc)

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9270259

Sample: WSW-12 **Lab ID: 9270259013** Collected: 05/24/10 16:59 Received: 05/26/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 18:18	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	05/28/10 04:00	05/29/10 18:18	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 20:29	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 20:29	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 20:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 20:29	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 20:29	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 20:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 20:29	95-47-6	
4-Bromofluorobenzene (S)	95	%	70-130		1		06/02/10 20:29	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		06/02/10 20:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		06/02/10 20:29	17060-07-0	
Toluene-d8 (S)	94	%	70-130		1		06/02/10 20:29	2037-26-5	

Sample: WSW-13 **Lab ID: 9270259014** Collected: 05/25/10 11:15 Received: 05/26/10 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/28/10 04:00	05/29/10 18:38	106-93-4	
1-Chloro-2-bromopropane (S)	100	%	60-140		1	05/28/10 04:00	05/29/10 18:38	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		06/02/10 20:54	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		06/02/10 20:54	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		06/02/10 20:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		06/02/10 20:54	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		06/02/10 20:54	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		06/02/10 20:54	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		06/02/10 20:54	95-47-6	
4-Bromofluorobenzene (S)	91	%	70-130		1		06/02/10 20:54	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		06/02/10 20:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		06/02/10 20:54	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		06/02/10 20:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-11 Lab ID: 9280235059 Collected: 10/19/10 15:00 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:58	10/22/10 05:46	106-93-4	
1-Chloro-2-bromopropane (S)	90	%	60-140		1	10/21/10 13:58	10/22/10 05:46	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 15:13	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 15:13	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 15:13	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 15:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 15:13	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 15:13	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 15:13	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 15:13	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 15:13	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		10/23/10 15:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		10/23/10 15:13	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		10/23/10 15:13	2037-26-5	

Sample: WSW-12 Lab ID: 9280235060 Collected: 10/19/10 15:05 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:58	10/22/10 06:06	106-93-4	
1-Chloro-2-bromopropane (S)	92	%	60-140		1	10/21/10 13:58	10/22/10 06:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 15:32	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 15:32	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 15:32	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 15:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 15:32	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 15:32	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 15:32	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 15:32	95-47-6	
4-Bromofluorobenzene (S)	95	%	70-130		1		10/23/10 15:32	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		10/23/10 15:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		10/23/10 15:32	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/23/10 15:32	2037-26-5	

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UST
Cathleen
JUN 24 2010
PROGRAM

Zhech
UST DOCKET

TIER I ASSESSMENT REPORT
378 TRUCK STOP
731 HIGHWAY 378
EDGEFIELD, SC, EDGEFIELD COUNTY
SITE ID NO. 07960
ECS PROJECT NO. 14-214210

Prepared For:

Wilkerson Fuel Company, Inc.
PO Box 2835
Rock Hill, South Carolina 29732

Prepared By:

Environmental Compliance Services, Inc.
13504 South Point Blvd, Unit F
Charlotte, NC 28273
SC Certification #358

June 18, 2010

Christine E. Dupuis
Project Manager

CRAIG L. KENNEDY
REGISTERED
No. 2425
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

Craig L. Kennedy, P.G.
License No. 2425

TIER I ASSESSMENT REPORT OF FINDINGS

I. INTRODUCTION

A. Owner/Operator Information

Name: Wilkerson Fuel Company, Inc.

UST Permit #: 07960

Address: PO Box 2835, Rock Hill, South Carolina 29732

Telephone Number: 803-324-4080

B. Property Owner Information

Name: Gail and Barbera Whitmer

Address: 1226 Highway 378 East, Edgefield, South Carolina 29824

Telephone Number: 803-637-3878

C. Contractor Information

Name: Environmental Compliance Services, Inc.

SCDHEC Certification #: 358

Address: 13504 South Point Blvd, Unit F, Charlotte, NC 28273

Telephone Number: (704) 583-2711

D. Facility Information

Address: 731 Highway 378, Edgefield, South Carolina 29824

Description of Adjacent Land Use: Residential, rural

Predicted Future Land Use: Commercial

E. Facility History

Date Release Reported to SCDHEC: October 3, 1974

Estimated Quantity of Product Released: Unknown

Cause of Release: Unknown

UST #	Product	Date Installed	Currently in Use	Date Closed
1	Diesel	Unknown	No	01/01/1987
2	Gasoline	Unknown	No	01/01/1987
3	Gasoline	Unknown	No	01/01/1987

Other releases at this site? Yes **<u>No</u>**

If yes, date release reported to SCDHEC: N/A

Status of release: N/A

No further action date: N/A

II. SITE CHARACTERISTICS

A. Site Geography

An abandoned building was present onsite at the time of our assessment. Properties directly surrounding the site were open fields. Nearby properties were mainly open fields and residences. A fire station was located on the corner of Highway 378 and Faulkner Mountain Road. The ground surface at the site consisted of soil, gravel, and grasses and was not covered with concrete or asphalt. A concrete slab was located adjacent to the onsite building to the east. Nearby property owners claimed this area was used as a waste oil pit, which was covered in concrete when abandoned. No surface water bodies were identified within 1,000 ft of the site.

Mean Elevation of Site: Approximately 248 feet above mean sea level.

Additional Comments: N/A

B. Exposure Analysis

Describe all potential receptors and preferred pathways within a 1,000-foot radius of the site.

Description of Receptor	Distance/Direction from Site
Private Water Supply Well (labeled WSW-1)	Approximately 238 ft SSE of the site
Private Water Supply Well (labeled WSW-2)	Approximately 450 ft SSE of the site
Private Water Supply Well (labeled WSW-4)	Approximately 780 ft SE of the site
Private Water Supply Well (labeled WSW-5)	Approximately 482 ft E of the site
Private Water Supply Well (labeled WSW-6)	Approximately 366 ft E of the site
Private Water Supply Well (labeled WSW-7)	Approximately 469 ft WNW of the site
Private Water Supply Well (labeled WSW-8)	Approximately 260 ft SW of the site
Private Water Supply Well (labeled WSW-9)	Approximately 671 ft SW of the site
Private Water Supply Well (labeled WSW-10)	Approximately 424 ft SSW of the site
Private Water Supply Well (labeled WSW-11)	Approximately 488 ft SSW of the site
Private Water Supply Well (labeled WSW-12)	Approximately 582 ft SSW of the site
Private Water Supply Well (labeled WSW-13)	Approximately 725 ft SSW of the site
Private Water Supply Well (labeled WSW-14)	Approximately 825 ft SSW of the site
Private Water Supply Well (labeled WSW-15)	Approximately 918 ft SSW of the site
Disconnected Private Water Supply Well (labeled WSW-3)	Approximately 550 ft ESE of the site
Disconnected private water supply well	Approximately 615 ft NNW of the site
Disconnected private water supply well	Approximately 444 ft SW of the site
Disconnected private water supply well	Approximately 189 ft S of the site
Disconnected private water supply well	Approximately 352 ft S of the site
Disconnected private water supply well	Approximately 678 ft SE of the site

Additional Comments: All active water supply wells identified within 1,000 ft of the site were sampled.

C. Utilities Survey

List the utilities on-site, and adjacent to the site within a 250-foot radius, that could serve as exposure points or ingestion pathways.

Utility	On-site or Distance/Direction from Site	Depth to Utility
NA	NA	NA

Additional Comments: Only overhead electric lines observed.

D. Site Geology

Provide a brief description of the regional geology and hydrogeology.

The sedimentary formations of the Coastal Plain range in age from Late Cretaceous to Recent. They consist, for the most part, of unconsolidated sand, clay, gravel, marl, and limestone which have been deposited on a surface of granite, schist, and gneiss similar to, and a continuation of, the rocks underlying the adjoining Piedmont province. Some coquinas have been silicified to form so-called buhrstones and some clays hardened into siltstones. Considered en masse, the formations of the Coastal Plain may be classified as having a monoclinal or aclinal structure, and they rest on rocks of a much older crystalline complex. The unconsolidated rocks occur as wedges of sand, clay, marl, and limestone. Underlying the unconsolidated sediments are "crystalline" rocks consisting of granite, gneiss, schist, and a series of volcanics. Fault troughs or grabens were formed in these pre-Mesozoic rocks during Triassic time, into which were deposited ferruginous and carbonaceous sands and clays. These sediments were subsequently injected by diabase dikes and sills.

Provide a brief description of the site specific geology and stratigraphy.

The site was underlain by an orange/red silty clay from grade to a depth of approximately five feet below grade. Grey silt with partially weathered rock was encountered underneath the clay and terminated at a depth of approximately 10 feet below grade in the southern portion of the site and between 16 and 19 ft below grade in northern and eastern portions of the site. Mudstone was identified below the partially weathered rock and transitioned to a crystalline rock at depths ranging from 31 to 36 ft below grade. The percentages of gravel, sand, and silt/clay in a soil sample collected at a depth of 40 feet during the installation of well MW-3 were 10.0%, 39.8%, and 50.1%, respectively. The depths to groundwater in monitoring wells MW-1 through MW-5 at the site ranged from 15.37 feet (MW-1) to 27.30 feet (MW-5) on May 25, 2010, after allowing the wells to equilibrate overnight. However, it is could not be concluded that these depth to water readings represented actual groundwater table depths. Subsurface lithology may have created pressure in the wells, leading to potentially inaccurate readings. Based on the depth to water data obtained on May 25, 2010, groundwater flow direction was toward the southeast. However, based on topography, groundwater may flow generally towards the south. The water levels measured in the onsite wells may not represent actual water table depths, and may therefore not be an accurate representation of groundwater flow. Well MW-5 was not contoured to determine groundwater flow direction as the measured depth to water in this well was not believed to have fully stabilized.

E. Soil Boring Data

Drilling Date(s): May 10, 2010

Provide a brief justification for the location of the soil borings.

SB-1 – Potential former tank basin based on information provided by SCDHEC.

SB -2 – Potential former tank basin based on information provided by SCDHEC.

SB -3 – Potential former piping location.

SB -4 – Potential former piping location.

SB -5 – Potential former dispenser island.

SB -6 – Potential former piping location.

SB -7 – Adjacent to concrete pad that was allegedly used to cover former waste oil pit.

SB -8 – Background boring.

Drilling refusal was encountered at each boring location at termination depths shown below.

Borehole: SB-1 Sampling Date: 5/10/10 Sample Depth: 10 ft

Sampling Interval (feet)	Field Screening Results (ppm)	Lithology	Soil Conditions
5	1.0	Grey silt with partially weathered rock	Dry
10	8.9	Grey silt with partially weathered rock	Dry

Borehole: SB-2 Sampling Date: 5/10/10 Sample Depth: 10 ft

Sampling Interval (feet)	Field Screening Results (ppm)	Lithology	Soil Conditions
5	4.5	Grey silt with partially weathered rock	Dry
10	768	Grey silt with partially weathered rock	Dry

Borehole: SB-3 Sampling Date: 5/10/10 Sample Depth: 10 ft

Sampling Interval (feet)	Field Screening Results (ppm)	Lithology	Soil Conditions
2	1.3	Orange/red silty clay	Dry
4	0.8	Orange/red silty clay	Dry
6	50.2	Red/orange silt with partially weathered rock	Dry
8	1,053	Red/orange silt with partially weathered rock	Dry
10	1,273	Red/orange silt with partially weathered rock	Dry

Borehole: SB-4 Sampling Date: 5/10/10 Sample Depth: 10 ft

Sampling Interval (feet)	Field Screening Results (ppm)	Lithology	Soil Conditions
2	1.1	Orange/red silty clay	Dry
4	0.6	Orange/red silty clay	Dry
6	41.6	Grey silt with partially weathered rock	Dry
8	426	Grey silt with partially weathered rock	Dry
10	550	Grey silt with partially weathered rock	Dry

Borehole: SB-5 Sampling Date: 5/10/10 Sample Depth: 8 ft

Sampling Interval (feet)	Field Screening Results (ppm)	Lithology	Soil Conditions
2	42.9	Orange silty clay	Dry
4	193	Orange silty clay	Dry
6	859	Tan/grey silt with partially weathered rock	Dry
8	1,543	Tan/grey silt with partially weathered rock	Dry
10	890	Tan/grey silt with partially weathered rock	Dry

Borehole: SB-6 Sampling Date: 5/10/10 Sample Depth: 10 ft

Sampling Interval (feet)	Field Screening Results (ppm)	Lithology	Soil Conditions
2	0.0	Orange/red silty clay	Dry
4	1.0	Orange/grey silt with partially weathered rock	Dry
6	865	Orange/grey silt with partially weathered rock	Dry
8	214	Orange/grey silt with partially weathered rock	Dry
10	1,047	Orange/grey silt with partially weathered rock	Dry

Borehole: SB-7 Sampling Date: 5/10/10 Sample Depth: 6 ft

Sampling Interval (feet)	Field Screening Results (ppm)	Lithology	Soil Conditions
2	0.0	Orange/red silty clay	Dry
4	0.0	Orange/red silty clay	Dry
6	2.4	Grey silt with partially weathered rock	Dry
8	0.0	Grey silt with partially weathered rock	Dry
9	0.0	Grey silt with partially weathered rock	Dry

Borehole: SB-8 Sampling Date: 5/10/10 Sample Depth: 10 ft

Sampling Interval (feet)	Field Screening Results (ppm)	Lithology	Soil Conditions
2	2.4	Orange/red silty clay	Dry
4	0.0	Brown/grey silt with partially weathered rock	Dry
6	3.7	Brown/grey silt with partially weathered rock	Dry
8	0.4	Brown/grey silt with partially weathered rock	Dry
10	0.0	Brown/grey silt with partially weathered rock	Dry

Soil Analytical Data (ug/kg):

COC	RBSL[1]	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
Benzene	7	<252[2]	**87.6**[3]	**249**	**511**	**70.9**	**496**	<4.9	NR[4]
Toluene	1,450	271	132	**2,890**	**3,990**	191	**36,600**	<4.9	NR
Ethylbenzene	1,150	260	247	973	**1,590**	21.7	**15,900**	<4.9	NR
Xylenes	14,500	1,673	1,699	6,270	9,970	139.7	**86,000**	<14.8	NR
Total BTEX	N/A	2,204	2,165.6	10,382	1,6061	423.3	138,996	<29.5	NR
MTBE	N/A	<252	<4.6	<232	<262	<4.6	<6.2	<4.9	NR
Naphthalene	36	**393**	**181**	**566**	**648**	**38.0**	**6,190**	<4.9	NR
Benzo(a) anthracene	66	<1.9	<2.0	<2.0	<2.0	<1.9	<2.0	<1.9	NR
Benzo(b) fluoranthene	66	<3.7	<3.8	<3.8	<3.8	<3.6	<3.9	<3.8	NR
Benzo(k) fluoranthene	66	<1.9	<2.0	<2.0	<2.0	<1.9	<2.0	<1.9	NR
Chrysene	66	<1.9	<2.0	<2.0	<2.0	<1.9	<2.0	<1.9	NR
Dibenz(a,h) anthracene	66	<3.7	<3.8	<3.8	<3.8	<3.6	<3.9	<3.8	NR
TPH DRO	N/A	NR	NR	NR	NR	<7,400	NR	NR	NR
TOC (background boring)	N/A	NR	NR	NR	NR	NR	NR	NR	<250,000
Total Lead	N/A	13,300	8,500	8,500	3,200	7,100	7,200	22,200	NR

Notes:
1. May 2001 Risk Based Screening Levels for sandy soil.
2. Less than the laboratory reporting limit.
3. Concentrations in bold face type exceeded the RBSL.
4. Analysis not requested.

Discuss the horizontal and vertical extent of COC in soil.

A concentration of naphthalene reported in SB-1 at a depth of 10 feet below grade surface (bgs) exceeded the RBSL for sandy soils. The concentrations of benzene and naphthalene reported in SB-2 at a depth of 10 feet bgs exceeded the RBSLs for sandy soils. The concentrations of benzene, toluene, and naphthalene reported in SB-3 at a depth of 10 feet bgs exceeded the RBSLs for sandy soils. The concentrations of benzene, toluene, ethylbenzene, and naphthalene reported in SB-4 at a depth of 10 feet bgs exceeded the RBSLs for sandy soils. The concentrations of benzene and naphthalene reported in SB-5 at a depth of 8 feet bgs exceeded the RBSLs for sandy soils. The concentrations of benzene, toluene, ethylbenzene, xylenes, and naphthalene reported in SB-6 at a depth of 10 feet bgs exceeded the RBSLs for sandy soils.

Exact locations of the former UST system components are not apparent based on the results of the soil sampling activities. However, elevated concentrations were reported in the southern portion of the site, in front of the onsite building. The laboratory analytical data showed that the horizontal and vertical extent of the COC in soil have not been fully delineated.

Drilling refusal was encountered in the eight soil borings at or above a depth of 10 ft bgs. Therefore, potential vertical delineation could not have been achieved.

F. Chemicals of Concern – Groundwater

Well Installation Information

Well No.	Installation Date	Development Date	Sampling Date
MW-1	unknown	unknown	Free Product in May 2010
MW-2	unknown	unknown	5/25/10
MW-3	5/25/10	5/25/10	5/25/10
MW-4	5/25/10	5/25/10	5/25/10
MW-5	5/25/10	5/25/10	5/25/10

Summary of Monitoring Well and Groundwater Data (measurements reported in feet)

Well No.	TOC Elevation	Screened Interval	Depth to Water	Depth to Free Product	Water Table Elevation
MW-1	101.85	unknown	15.37	15.33	86.51*
MW-2	101.02	unknown	16.82	----	84.20
MW-3	101.46	10-40	17.28	----	84.18
MW-4	100.50	10-40	16.35	----	84.15
MW-5	104.21	20-40	27.30	----	76.91

*** Groundwater elevation adjusted for the presence of free product with an assumed density of 0.75 g/cm^3**

Field Data Measurements

Parameter	MW-2	MW-3	MW-4	MW-5
Temperature (°C)	20.5	21.3	19.9	18.9
Conductivity (mV)	0.471	0.317	0.412	0.772
Dissolved Oxygen (mg/L)	1.35	5.02	6.21	9.16
pH	6.44	6.52	6.71	7.07
ORP (us/cm)	-11	84	72	128
Turbidity (NTU)	>999	>999	>999	742.0

Groundwater Analytical Data[1]

COC[1]	RBSL	MW-1	MW-2	MW-3	MW-4	MW-5
Free Product Thickness (feet)	N/A	0.04	----	----	----	----
Benzene	5	NS[2]	**109[3]**	**239**	2.9J[4]	3.6J
Toluene	1,000	NS	<5.0[5]	139	<5.0	1.8J
Ethylbenzene	700	NS	114	**815**	1.4J	4.0J
Xylenes	10,000	NS	312	4,800	<15.0	22.3
Total BTEX	N/A	NS	535	5,993	4.3J	31.7J
MTBE	40	NS	<5.0	<5.0	<5.0	<5.0
EDB	0.05	NS	0.035	**0.099**	<0.020	<0.020
Naphthalene	25	NS	**50.6**	**285**	12.7	<5.0
1,2 DCA	5	NS	NR[6]	**126**	3.5J	4.8J
Benzo(a)anthracene	10	NS	NR	<14.3	<13.3	<14.3
Benzo(b)fluoranthene	10	NS	NR	<14.3	<13.3	<14.3
Benzo(k)fluoranthene	10	NS	NR	<14.3	<13.3	<14.3
Chrysene	10	NS	NR	<14.3	<13.3	<14.3

Dibenz(a,h)anthracene	10	NS	NR	<14.3	<13.3	<14.3
Lead	15	NS	NR	**28.9**	**62.8**	11.8
TPH DRO	----	NS	NR	2,300	2,000	400
Nitrate	----	NS	NR	<100	<100	<100
Sulfate	----	NS	NR	5,800	2,800	3,300
Methane	----	NS	NR	170	16	<8.9
Ferrous Iron	----	NS	NR	<500	<500	<500
CO_2	----	NS	NR	69,100	189,000	129,000

COC	RBSL	WSW-1	WSW-2	WSW-3	WSW-4	WSW-5	WSW-6	WSW-7	WSW-8
Benzene	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Xylenes	10,000	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0
Total BTEX	N/A	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0
MTBE	40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene	25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
EDB	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

COC	RBSL	WSW-9	WSW-10	WSW-11	WSW-12	WSW-13	WSW-14	WSW-15
Benzene	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Xylenes	10,000	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0
Total BTEX	N/A	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0	<30.0
MTBE	40	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene	25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
EDB	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

Notes:
1. Concentrations reported in µg/L.
2. MW-1 not sampled due to the presence of free product.
3. Concentrations in bold face type exceeded the May 2001 SCDHEC RBSLs.
4. Estimated value below the laboratory reporting limit
5. Less than the laboratory reporting limit.
6. Analysis not requested.

G. Aquifer Characteristics:

Hydraulic Conductivity: between 7.57×10^{-5} and 1.234×10^{-4} feet/minute (0.1091 and 0.1778 feet/day)

Hydraulic Gradient: 0.0386 feet/foot

Effective Porosity: 0.08

Estimated Seepage Velocity: between 0.053 and 0.086 feet/day (19.21 and 31.31 feet/year)

III. TIER I EVALUATION

A. Current Land Use
Identify any potential receptors or human exposure pathways (e.g. basements, contaminated soils from UST closures, etc.) within a 1,000-foot radius for current land use.

Media (for exposure)	Exposure Route	Pathway Selected for Evaluation (Yes/No)	Exposure Point or Reason for Non-selection	Data Requirements (If pathway selected)
Air	Inhalation Explosion Hazard	**Yes** No **Yes** No	Potential exposure point if soil is excavated and/or underground utility lines are installed.	Vapor monitoring
Groundwater	Ingestion Dermal Contact Volatile Inhalation	**Yes** No **Yes** No **Yes** No	15 currently in use water supply wells and 5 abandoned water supply wells were identified within a 1,000-foot radius of the site. Groundwater has been affected by the release.	Fate and Transport Model
Surface Water	Ingestion Dermal Contact Volatile Inhalation	Yes **No** Yes **No** Yes **No**	Surface water bodies were not identified within a 1,000-foot radius of the site.	Fate and Transport Model
Surficial Soil	Ingestion Dermal Contact Volatile Inhalation Leaching to Groundwater	**Yes** No **Yes** No **Yes** No **Yes** No	The site is not capped with asphalt or concrete. Groundwater has been affected by the release.	Soil leachability model.
Subsurface Soil	Ingestion Dermal Contact Volatile Inhalation Leaching to Groundwater	**Yes** No **Yes** No **Yes** No **Yes** No	The site is not capped with asphalt or concrete. Groundwater has been affected by the release.	Soil leachability model.

B. Future Land Use
Identify any potential receptors or human exposure pathways (e.g. basements, contaminated soils from UST closures, etc.) within a 1,000-foot radius for future land use.

Media (for exposure)	Exposure Route	Pathway Selected for Evaluation (Yes/No)	Exposure Point or Reason for Non-selection	Data Requirements (IF pathway selected)
Air	Inhalation Explosion Hazard	**Yes** No **Yes** No	Potential exposure point if soil is excavated and/or underground utility lines are installed.	Vapor Monitoring
Groundwater	Ingestion Dermal Contact Volatile Inhalation	**Yes** No **Yes** No **Yes** No	15 currently in use water supply wells and 5 abandoned water supply wells were identified within a 1,000-foot radius of the site. Groundwater has been affected by the release.	Fate and Transport Model

Surface Water	Ingestion Dermal Contact Volatile Inhalation	Yes **No** Yes **No** Yes **No**	Surface water bodies were not identified within a 1,000-foot radius of the site.	Fate and Transport Model
Surficial Soil	Ingestion Dermal Contact Volatile Inhalation Leaching to Groundwater	**Yes** No **Yes** No **Yes** No **Yes** No	The site is not capped with asphalt or concrete. Potential land development may expose impacted soils. Groundwater has been affected by the release.	Engineering controls Soil leachability model.
Subsurface Soil	Ingestion Dermal Contact Volatile Inhalation Leaching to Groundwater	**Yes** No **Yes** No **Yes** No **Yes** No	The site is not capped with asphalt or concrete. Potential land development may expose impacted soils. Groundwater has been affected by the release.	Engineering controls Soil leachability model.

Recommendations for further action:

Concentrations of one or more COC that exceeded the RBSLs were reported in both soil and groundwater at the site. Free product was detected in one of the existing monitoring wells onsite. Fifteen operational water supply wells were located within 1,000 feet of the site. Tier II assessment activities should be conducted in order to determine the horizontal and vertical extent of the hydrocarbon plume.

Attachments:

Figures
- Figure 1: Site Locus
- Figure 2: Site Vicinity Map
- Figure 3: Site Plan
- Figure 4: Soil Quality Map
- Figure 5: Groundwater Flow Map
- Figure 6: Groundwater Quality Map

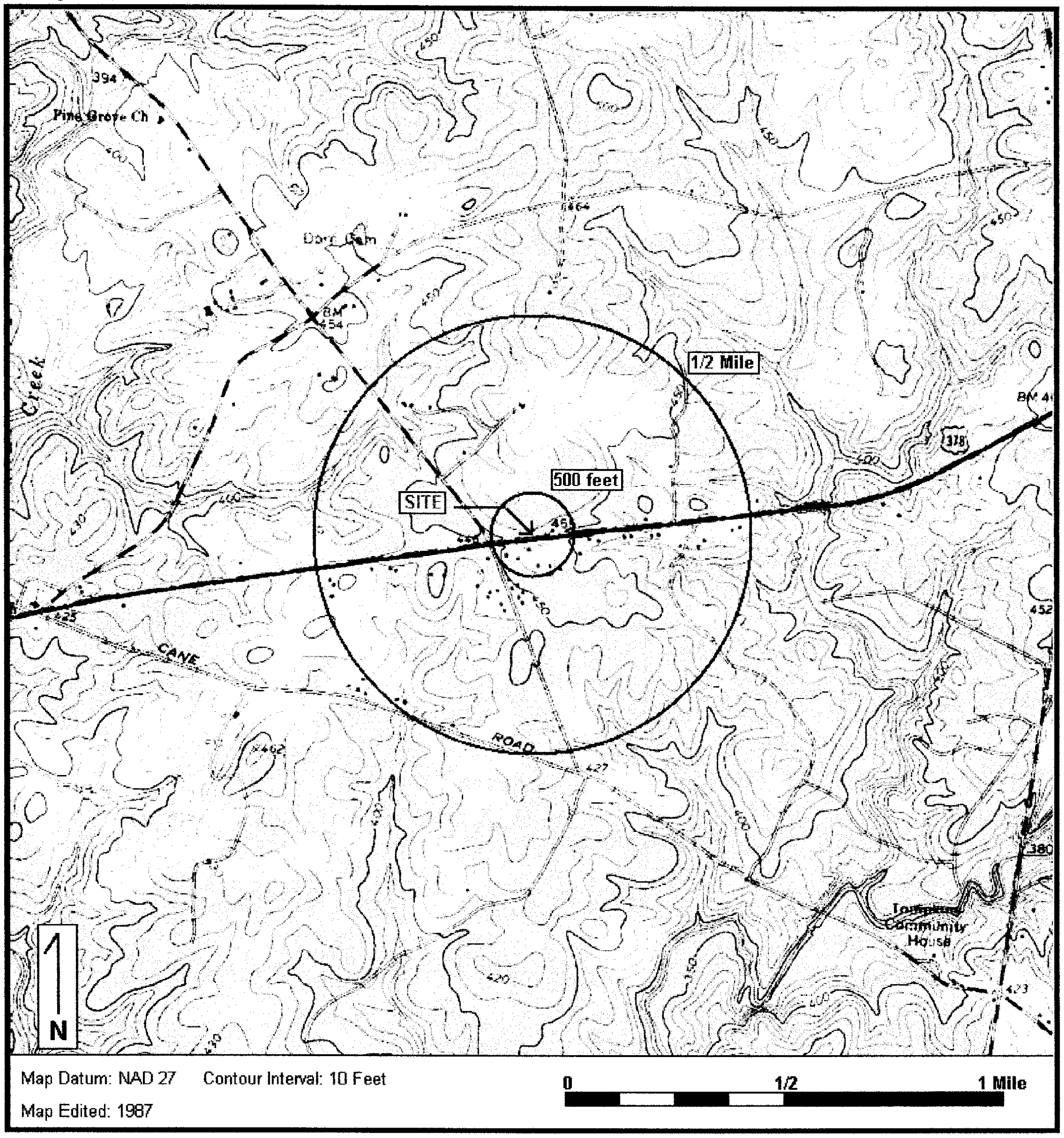
Appendices
- Appendix A: Boring Logs
- Appendix B: Well Construction Records
- Appendix C: Laboratory Reports – Soil and Groundwater Samples
- Appendix D: Groundwater Sampling Field Data Sheets
- Appendix E: Slug Test Data
- Appendix F: Edgefield Zoning Ordinances
- Appendix G: Summary of Adjacent Property Owners and Addresses
- Appendix H: Surveyed Site Map

FIGURES

Environmental Compliance Services, Inc.
13504 South Point Boulevard
Charlotte, NC 28273
Phone 704.583.2711
www.ecsconsult.com

378 Truck Stop
731 Highway 378
Edgefield, SC 29824

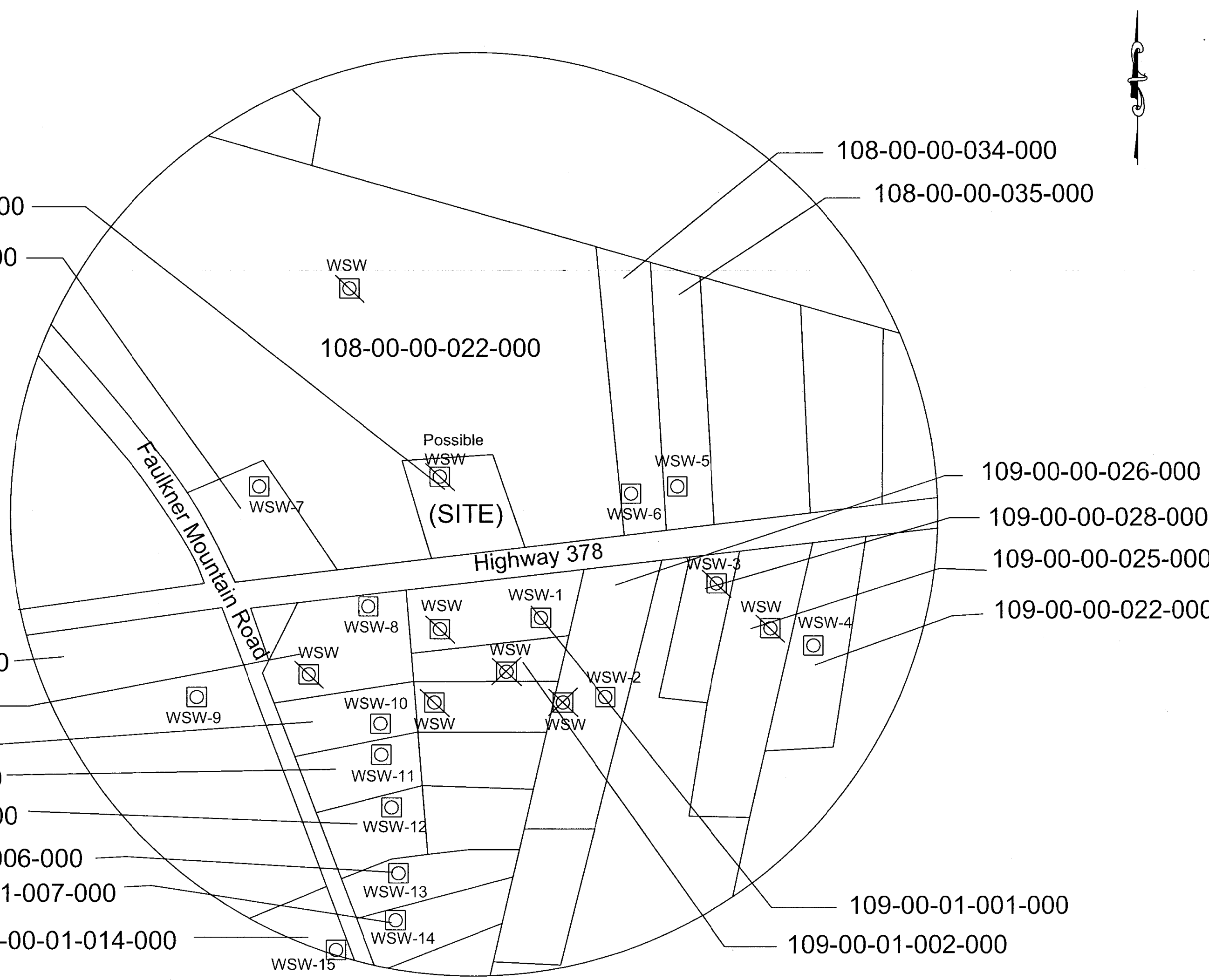
Figure 1: SITE LOCUS



Base Map: U.S. Geological Survey; Quadrangle Location: Owdoms, SC

Lat/Lon: 33º 56' 13" NORTH, 81º 57' 3" WEST - UTM Coordinates: 17 412120 EAST / 3755577 NORTH

Generated By: Rich Walas



Legend

108-00-00-023-000 PARCEL ID
PARCEL BOUNDARY
WSW-1 WATER SUPPLY WELL
DISCONNECTED WSW
ABANDONED WSW

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

ecs
WHERE BUSINESS AND THE ENVIRONMENT CONVERGE
13504 SOUTH POINT BLVD. UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL. (704)583-2711 FAX (704)583-2744

PROJECT: 378 Truck Stop
731 Highway 378
Edgefield, SC

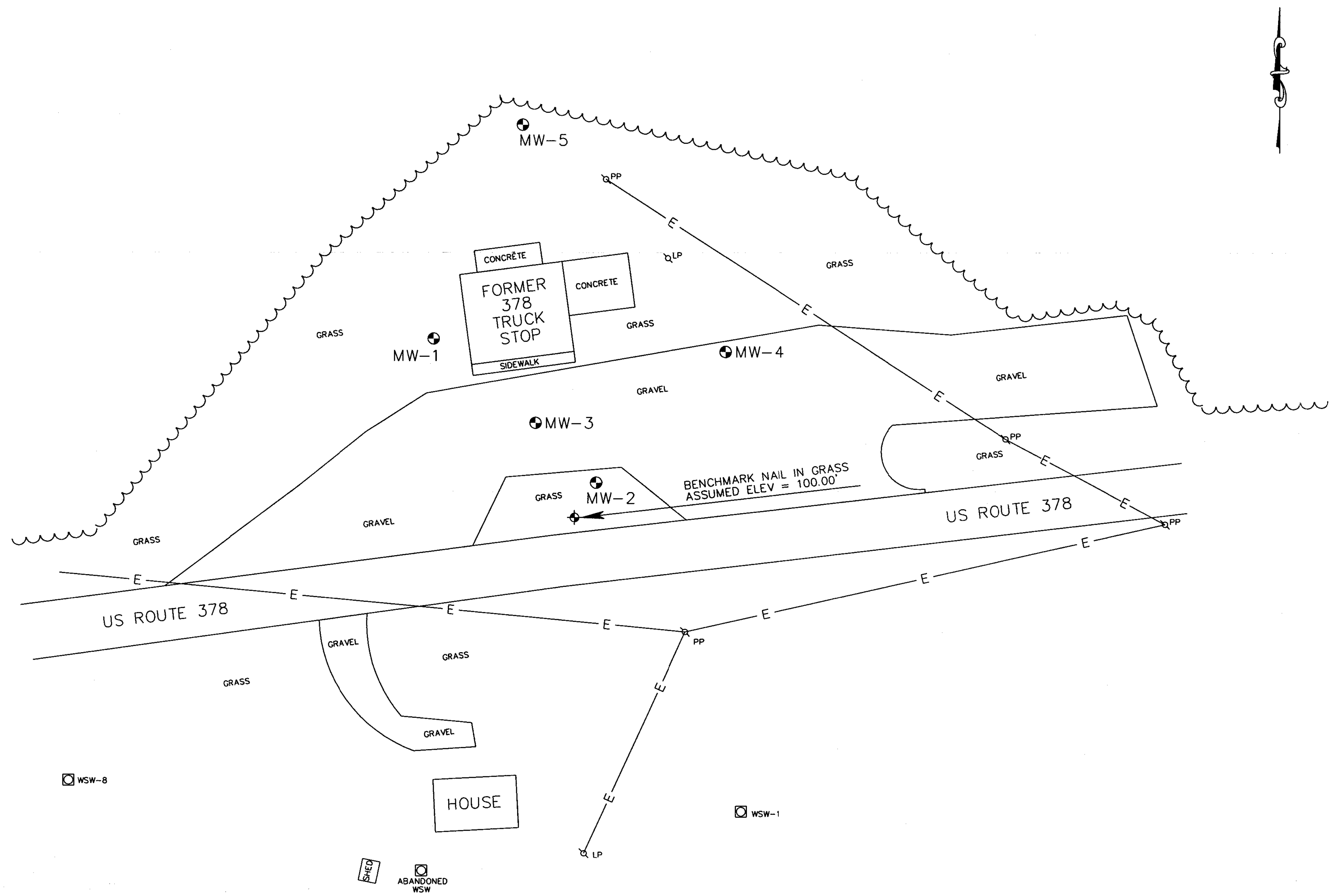
TITLE: Site Vicinity Map

CLIENT: Wilkerson Fuel Company, Inc.

GRAPHIC SCALE: 250 125 0 125 250

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1"=250'	6/15/10	14-214210	2



Legend

—— E ——	Overhead Electric Line
	Utility Pole
	Monitoring Well
	Water Supply Well

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Horizontal and vertical locations of wells and selected site features determined through measurements made by representatives of ECS.

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WHERE BUSINESS AND THE ENVIRONMENT CONVERGE
13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL. (704)583-2711 FAX (704)583-2744

PROJECT:
378 Truck Stop
731 Highway 378
Edgefield, SC

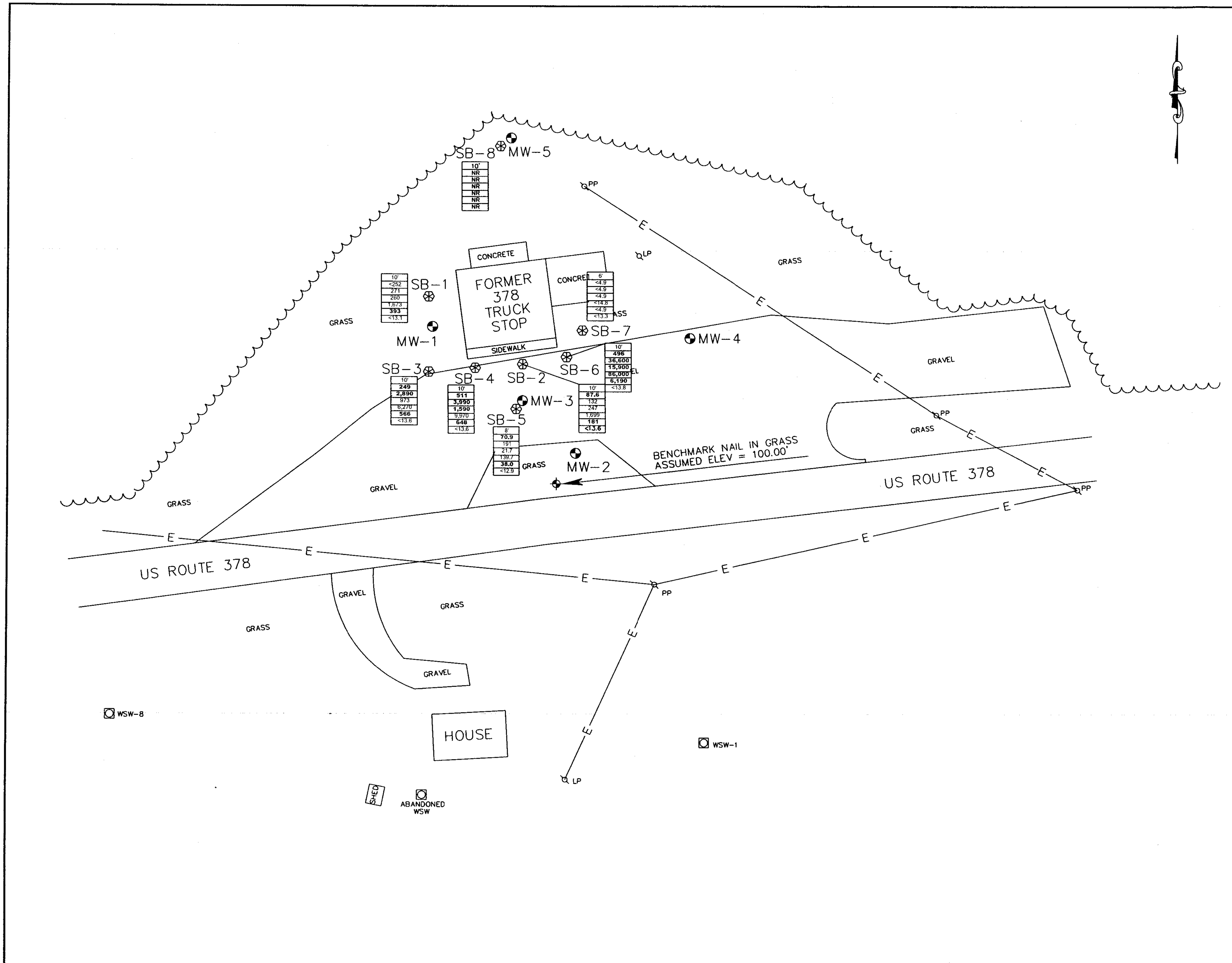
TITLE:
Site Plan

CLIENT:
Wilkerson Fuel Company, Inc.

GRAPHIC SCALE: 50 25 0 25 50

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO:	FIGURE NO:
1"=50'	6/15/10	14-214210	3



Legend

——E——	Overhead Electric Line
	Utility Pole
	Monitoring Well
	Water Supply Well
	Soil Boring

2'	Sample Depth
7	Benzene
1,450	Toluene
1,150	Ethylbenzene
14,500	Xylenes
36	Naphthalene
330	PAHs

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Horizontal and vertical locations of wells and selected site features determined through measurements made by representatives of ECS.

All concentrations are measured in micrograms per kilogram (ug/kg).

Above concentrations represent May 2001 Risk-Based Screening Levels for sandy soils and. Concentrations in bold face type exceeded the RBSL.

<1.0 – Less than the reporting limit specified in the laboratory report.

NR – Not requested.

ecs

WHERE BUSINESS AND THE ENVIRONMENT CONVERGE
13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL. (704)583-2711 FAX (704)583-2744

PROJECT:
378 Truck Stop
731 Highway 378
Edgefield, SC

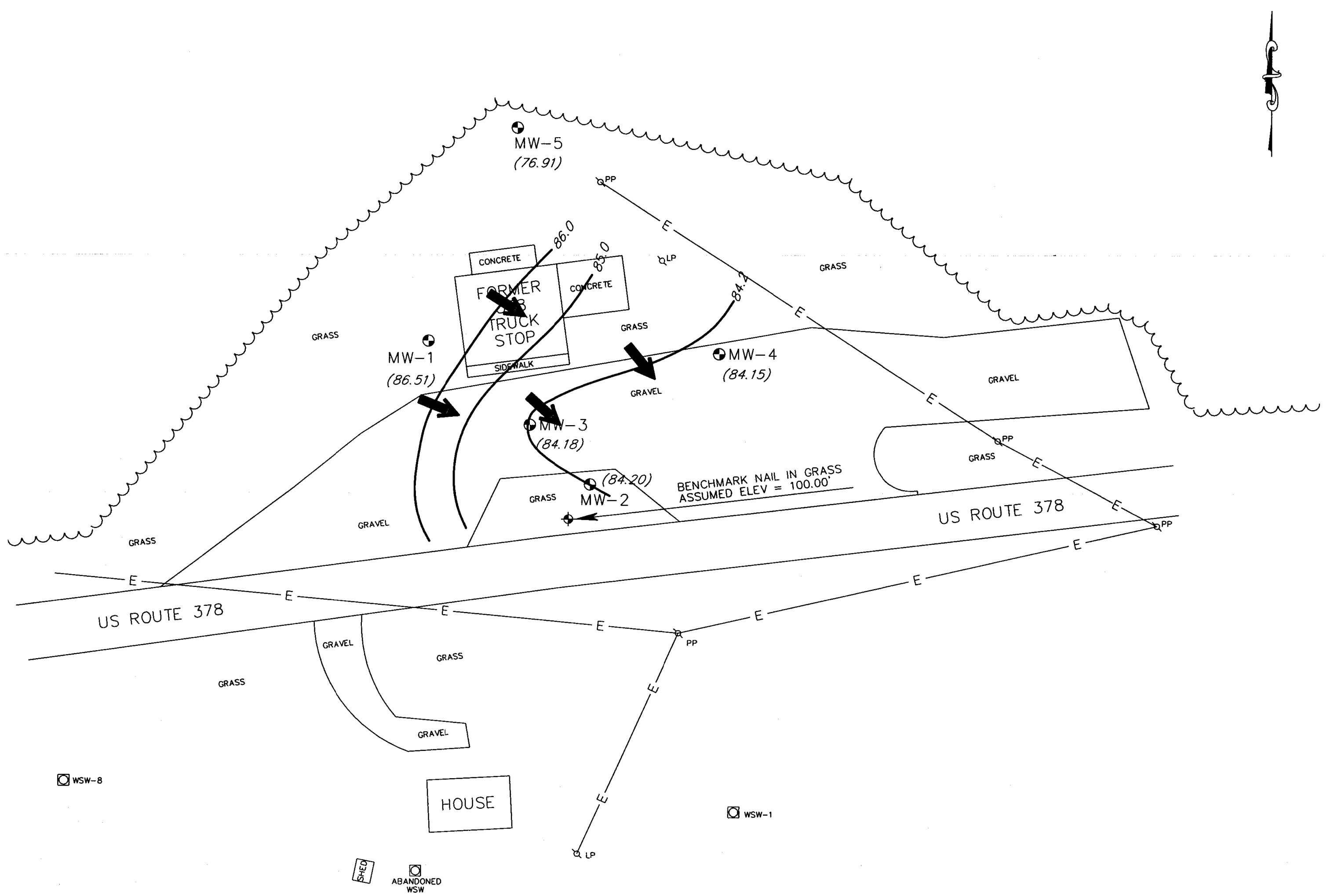
TITLE:
Soil Quality Map

CLIENT:
Wilkerson Fuel Company, Inc.

GRAPHIC SCALE: 50 25 0 25 50

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1"=50'	6/15/10	14-214210	4



Legend

—— E ——	Overhead Electric Line
	Utility Pole
	Monitoring Well
	Water Supply Well
(73.71)	Groundwater Elevation
90.00 ——	Water Table Contour (Dashed where inferred)
	Flow Direction Indicator

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Horizontal and vertical locations of wells and selected site features determined through measurements made by representatives of ECS.

Groundwater elevations are relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level.

Groundwater elevations are based on measurements made on May 25, 2010.

Water table contours and flow directions assume homogenous, isotropic aquifer conditions and horizontal flow.

Fluctuations in the level of the water table may occur due to factors not accounted for at the time of measurement.

Water table contours are interpolated between data points and inferred in other areas.

ecs
WHERE BUSINESS AND THE ENVIRONMENT CONVERGE
13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL. (704)583-2711 FAX (704)583-2744

PROJECT: 378 Truck Stop
731 Highway 378
Edgefield, SC

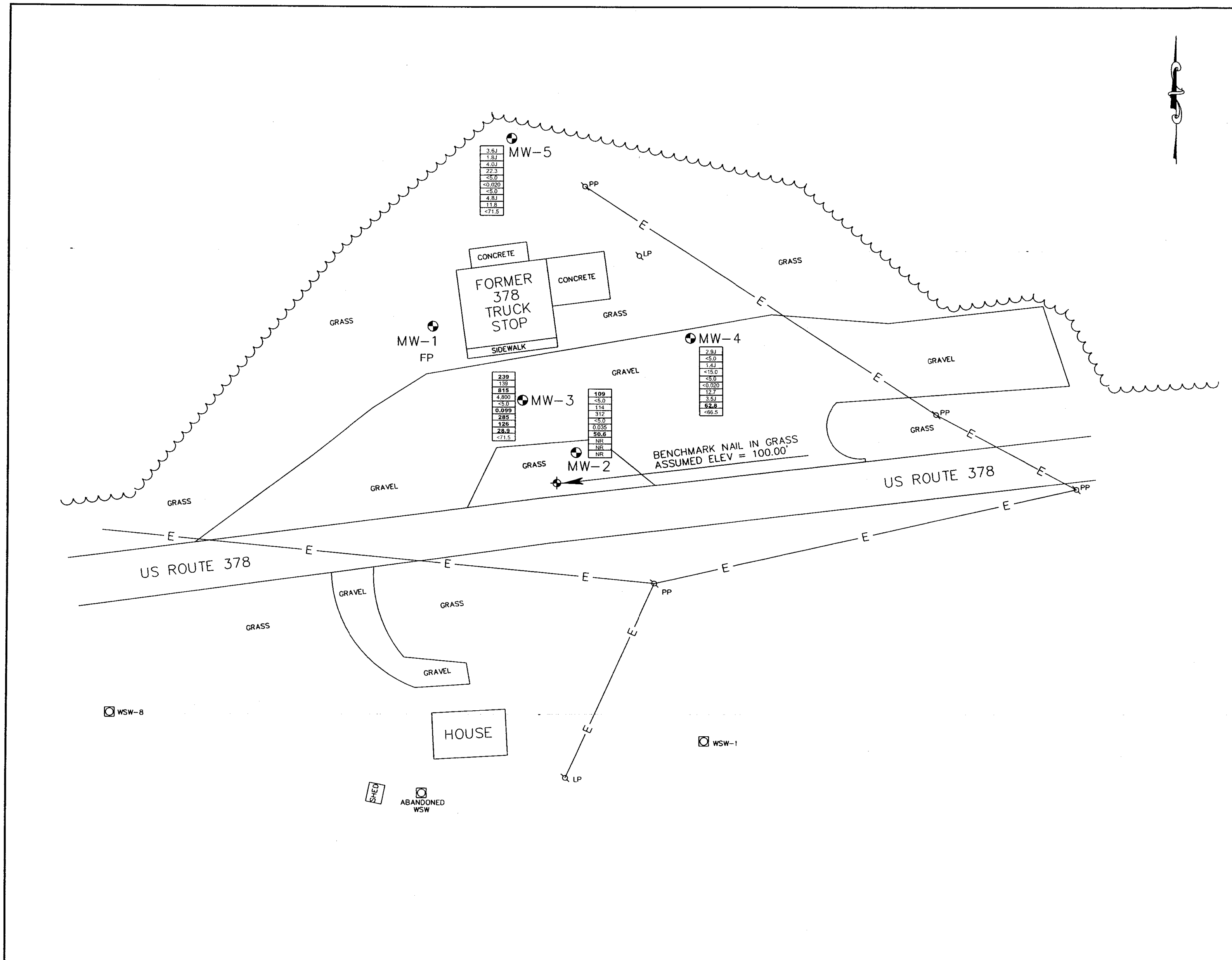
TITLE: Groundwater Flow Map

CLIENT: Wilkerson Fuel Company, Inc.

GRAPHIC SCALE: 50 25 0 25 50

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO:	FIGURE NO:
1"=50'	6/15/10	14-214210	5



Legend

E — Overhead Electric Line

Utility Pole

Monitoring Well

Water Supply Well

5	Benzene
1,000	Toluene
700	Ethylbenzene
10,000	Xylenes
40	MTBE
0.05	EDB
25	Naphthalene
5	1,2-DCA
15	Lead
50	PAHs

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Horizontal and vertical locations of wells and selected site features determined through measurements made by representatives of ECS.

All concentrations are measured in micrograms per liter (ug/L).

Above concentrations represent May 2001 Risk-Based Screening Levels; Concentrations in bold face type exceeded the RBSL.

<1.0 – Less than the reporting limit specified in the laboratory report.

J – Estimated value between the laboratory reporting limit and method detection limit.

NS – Not sampled.

NR – Not requested.

FP – Free Product. Well not sampled.

ECS
WHERE BUSINESS AND THE ENVIRONMENT CONVERGE
13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL. (704)583-2711 FAX (704)583-2744

PROJECT: 378 Truck Stop
731 Highway 378
Edgefield, SC

TITLE: Groundwater Quality Map

CLIENT: Wilkerson Fuel Company, Inc.

GRAPHIC SCALE: 50 25 0 25 50

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1"=50'	6/15/10	14-214210	6

APPENDICES

APPENDIX A
Boring Logs

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: NA feet
Height of Riser: NA feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	LITHOLOGY DIAGRAM	PID (ppm)	Sample Interval	PENETRATION - BLOWS PER FOOT (0 10 20 30 40 50 60 70 80 90 100)
		Grass/Fill				
	1.0	Orange/Red silty CLAY.				
	4.0	Grey SILT w/Partially Weathered Rock.				
	5.0			1.0	5	
	10.0	Boring terminated at 10 feet after hitting drilling refusal. Macrotubes pushed to a depth of approximately 10 feet.		8.9	10	
	15.0					
	20.0					
	25.0					
	30.0					
	35.0					
	40.0					
	45.0					

REMARKS: Drilled with Geoprobe 6620DT using Macrotubes.
Borehole diameter approximately 3".

Geologic Exploration - GEX

DRILLED BY: GEX - Danny Summers
LOGGED BY: ECS - R. Byas

BORING NUMBER: SB-1
DATE STARTED: 5/10/2010
DATE COMPLETED: 5/10/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
Standard Penetration Test
Asphalt/Concrete
Fill
Clay
Silt
Sand

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: NA feet
Height of Riser: NA feet

PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	LITHOLOGY DIAGRAM	PID (ppm)	Sample Interval
	0–1.0	Gravel/Fill			
	1.0–5.0	Orange/Red silty CLAY.			
	5.0–10.0	Grey SILT w/Partially Weathered Rock.		4.5	5
	10.0	Boring terminated at 10 feet after hitting drilling refusal. Macrotubes pushed to a depth of approximately 10 feet.		768	10

Depth scale (feet): 1.0, 5.0, 10.0, 15.0, 20.0, 25.0, 30.0, 35.0, 40.0, 45.0

REMARKS: Drilled with Geoprobe 6620DT using Macrotubes.
Borehole diameter approximately 3".

DRILLED BY: GEX - Danny Summers
LOGGED BY: ECS - R. Byas

BORING NUMBER: SB-2
DATE STARTED: 5/10/2010
DATE COMPLETED: 5/10/2010
PROJECT NUMBER: 14-214210

Geologic Exploration - GEX
▽ GW level @ time of boring
Standard Penetration Test

Asphalt/Concrete
Fill
Clay
Silt
Sand

BORING LOG

Job Name:	378 Truck Stop	Datum Elevation:	NA feet
Location:	731 Highway 378	Height of Riser:	NA feet
	Edgefield, SC		

PENETRATION - BLOWS PER FOOT

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	LITHOLOGY DIAGRAM	PID (ppm)	Sample Interval
	0.0–1.0	Grass/Fill			
	1.0–5.0	Orange/Red silty CLAY.		1.3	2
				0.8	4
	5.0–10.0	Red/Orange SILT w/partially weathered rock.		50.2	6
				1053	8
	10.0	Boring terminated at 10 feet. Macrotubes pushed to a depth of approximately 10 feet.		1273	10

REMARKS: Drilled with Geoprobe 6620DT using Macrotubes.
Borehole diameter approximately 3".

Geologic Exploration - GEX

DRILLED BY: GEX - Danny Summers
LOGGED BY: ECS - R. Byas

BORING NUMBER: SB-3
DATE STARTED: 5/10/2010
DATE COMPLETED: 5/10/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
Standard Penetration Test
Asphalt/Concrete
Fill
Clay
Silt
Sand

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: NA feet
Height of Riser: NA feet

PENETRATION - BLOWS PER FOOT

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	LITHOLOGY DIAGRAM	PID (ppm)	Sample Interval
		Gravel/Fill			
	1.0	Red/orange/grey silty CLAY.		1.1	2
				0.6	4
	5.0				
	6.0	Grey SILT w/Partially Weathered Rock.		41.6	6
				426	8
	10.0	Boring terminated at 10 feet. Macrotubes pushed to a depth of approximately 10 feet.		550	10
	15.0				
	20.0				
	25.0				
	30.0				
	35.0				
	40.0				
	45.0				

Penetration scale: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Drilled with Geoprobe 6620DT using Macrotubes.
Borehole diameter approximately 3".

DRILLED BY: GEX - Danny Summers
LOGGED BY: ECS - R. Byas

BORING NUMBER: SB-4
DATE STARTED: 5/10/2010
DATE COMPLETED: 5/10/2010
PROJECT NUMBER: 14-214210

Geologic Exploration - GEX
GW level @ time of boring
Standard Penetration Test

Asphalt/Concrete
Fill
Clay
Silt
Sand

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 102.02 feet
Height of Riser: 101.46 feet

PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	PID (ppm)	Sample Interval
		Gravel/Fill		
101.02	1.0	Orange silty CLAY.	42.9	2
			193	4
97.02	5.0	Tan/Grey SILT w/partially weathered rock.	859	6
			1543	8
93.02	9.0	Mudstone.		
92.02	10.0	Boring terminated at 10.0 feet. Macrotubes pushed to a depth of approximately 10 feet. Drilling to install a permanent monitoring well with Air rotary began on 5/24/10	890	10
	15.0			
	20.0			
	25.0			
	30.0			
	35.0			
66.02	36.0	Crystalline rock.		
62.02	40.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 40 feet on 5/25/10 with 30 feet of 0.010-inch slotted screen to 10 feet, sand to 8 feet, bentonite to 4 feet, grout to surface. Original boring drilled to 45 ft; well was then raised 5 ft based on depth to water.		
	45.0			

REMARKS: Drilled with Drilltech Air Rig.
Borehole diameter approximately 8".

Geologic Exploration - GEX

DRILLED BY: GEX - Nicholas Hayes
LOGGED BY: ECS - R. Byas

BORING NUMBER: SB-5/MW-3
DATE STARTED: 5/10/2010
DATE COMPLETED: 5/25/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: NA feet
Height of Riser: NA feet

PENETRATION - BLOWS PER FOOT

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	LITHOLOGY DIAGRAM	PID (ppm)	Sample Interval
	0.0–1.0	Gravel/Fill			
	1.0–4.0	Red/Orange silty CLAY.		0.0	2
	4.0–10.0	Orange/Grey SILT w/Partially Weathered Rock.		1.0	4
				865	6
				214	8
	10.0	Boring terminated at 10 feet. Macrotubes pushed to a depth of approximately 10 feet.		1047	10

Depth scale: 1.0, 4.0, 5.0, 10.0, 15.0, 20.0, 25.0, 30.0, 35.0, 40.0, 45.0

Penetration scale: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Drilled with Geoprobe 6620DT using Macrotubes.
Borehole diameter approximately 3".

Geologic Exploration - GEX

DRILLED BY: GEX - Danny Summers
LOGGED BY: ECS - R. Byas

BORING NUMBER: SB-6
DATE STARTED: 5/10/2010
DATE COMPLETED: 5/10/2010
PROJECT NUMBER: 14-214210

Legend: GW level @ time of boring; Hand Auger; Standard Penetration Test; Asphalt/Concrete; Fill; Clay; Silt; Sand

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: NA feet
Height of Riser: NA feet

PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	LITHOLOGY DIAGRAM	PID (ppm)	Sample Interval
	1.0	Grass/Fill			
		Red/Orange silty CLAY.		0.0	2
				0.0	4
	5.0	Grey SILT w/Partially Weathered Rock.		2.4	6
				0.0	8
	9.0			0.0	9
	10.0	Boring terminated at 9 feet. Macrotubes pushed to a depth of approximately 9 feet.			
	15.0				
	20.0				
	25.0				
	30.0				
	35.0				
	40.0				
	45.0				

REMARKS: Drilled with Geoprobe 6620DT using Macrotubes.
Borehole diameter approximately 3".

Geologic Exploration - GEX

DRILLED BY: GEX - Danny Summers
LOGGED BY: ECS - R. Byas

BORING NUMBER: SB-7
DATE STARTED: 5/10/2010
DATE COMPLETED: 5/10/2010
PROJECT NUMBER: 14-214210

GW level @ time of boring
Hand Auger
Standard Penetration Test
Asphalt/Concrete
Fill
Clay
Silt
Sand

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 104.48 feet
Height of Riser: 104.21 feet

PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval
		Grass/Fill			
103.48	1.0	Red/Orange silty firm CLAY.			
				2.4	2
100.48	4.0	Grey/Brown SILT w/Partially Weathered Rock.		0.0	4
	5.0				
				3.7	6
				0.4	8
95.48	9.0	Partially Weathered Rock, hard.			
94.48	10.0	Boring terminated at 10 feet. Macrotubes pushed to a depth of approximately 10 feet. Drilling to install a permanent monitoring well with Air rotary began on 5/24/10		0.0	10
	15.0				
85.48	19.0	Mudstone.			
	20.0				
	25.0				
	30.0				
73.48	31.0	Crystalline rock.			
	35.0				
64.48	40.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 40 feet on 5/25/10 with 20 feet of 0.010-inch slotted screen to 20 feet, sand to 18 feet, bentonite to 14 feet, grout to surface. Original boring drilled to 45 ft; well was then raised 5 ft based on depth to water.			
	45.0				

REMARKS: Drilled with Drilltech Air Rig.
Borehole diameter approximately 8".

Geologic Exploration - GEX

DRILLED BY: GEX - Nicholas Hayes
LOGGED BY: ECS - R. Byas

BORING NUMBER: SB-8/MW-5
DATE STARTED: 5/10/2010
DATE COMPLETED: 5/25/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name: 378 Truck Stop

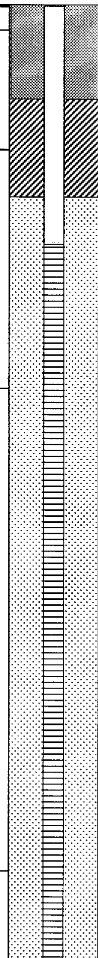
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 100.89 feet

Height of Riser: 100.50 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Grass/Fill
99.89	1.0	Orange silty CLAY.
	5.0	
94.89	6.0	Tan/Grey SILT w/partially weathered rock.
	10.0	
	15.0	
84.89	16.0	Mudstone. Hit drilling refusal with Geoprobe 6620DT at depth of 16 ft. Drilling with Air rotary began on 5/24/10
	20.0	
	25.0	
	30.0	
	35.0	
64.89	36.0	Crystalline rock.
60.89	40.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 40 feet on 5/25/10 with 30 feet of 0.010-inch slotted screen to 10 feet, sand to 8 feet, bentonite to 4 feet, grout to surface. Original boring drilled to 45 ft; well was then raised 5 ft based on depth to water.
	45.0	

WELL DIAGRAM



PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Drilled with Drilltech Air Rig.
Borehole diameter approximately 8".

Geologic Exploration - GEX

DRILLED BY: GEX - Nicholas Hayes

LOGGED BY: ECS - R. Byas

BORING NUMBER: MW-4

DATE STARTED: 5/10/2010

DATE COMPLETED: 5/25/2010

PROJECT NUMBER: 14-214210

GW level @ time of boring
GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

APPENDIX B
Well Construction Records

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
GRAVEL	1.0	1.0
TAN CLAY	9.0	10.0
TAN MUDSTONE	29.0	39.0
GRAY ROCK	6.0	45.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-3 BENTONITE SEAL FROM 4.0 TO 8.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 05/24/10
40.0 ft. Date Completed: 05/25/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 10.0 ft. depth
____ in. to ____ ft. depth
Height: Above☐ Below☐ Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 30.0 FEET
Set Between: 10.0 ft. and 40.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 14.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8.0 ft. to 40.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0.0 ft. to 4.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: NICHOLAS HAYES **CERT. NO.:** 01983
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Nicholas Hayes Date: 05/26/10
Well Driller

If D Level Driller, provide supervising driller's name:
MARK GETTYS

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY
(last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
GRAVEL	1.0	1.0
TAN CLAY	9.0	10.0
TAN MUDSTONE	26.0	36.0
GRAY ROCK	9.0	45.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-4 BENTONITE SEAL FROM 4.0 TO 8.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 40.0 ft.
Date Started: 05/24/10
Date Completed: 05/25/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 10.0 ft. depth
____ in. to ____ ft. depth
Height: Above☐ Below☐
Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 30.0 FEET
Set Between: 10.0 ft. and 40.0 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 14.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 8.0 ft. to 40.0 ft.
Effective size 1.43 Uniformly Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0.0 ft. to 4.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: NICHOLAS HAYES **CERT. NO.:** 01983
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Nicholas Hayes Date: 05/26/10
Well Driller

If D Level Driller, provide supervising driller's name:
MARK GETTYS

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TAN CLAY	10.0	10.0
TAN MUDSTONE	24.0	34.0
GRAY ROCK	11.0	45.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-5 BENTONITE SEAL FROM 14.0 TO 18.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 40.0 ft. Date Started: 05/24/10 Date Completed: 05/25/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 20.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐ Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 20.0 FEET
Set Between: 20.0 ft. and 40.0 ft. **NOTE: MULTIPLE SCREENS**
____ ft. and ____ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 14.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 18.0 ft. to 40.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0.0 ft. to 14.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: NICHOLAS HAYES **CERT. NO.:** 01983
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☐ C ☐ D ☑ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Nicholas Hayes (Well Driller) Date: 05/26/10

If D Level Driller, provide supervising driller's name:
MARK GETTYS

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(704)875-9092

May 19, 2010

Ms. Christine Dupuis
Environmental Compliance Servi
13504 South Point Blvd
Charlotte, NC 28273

RE: Project: TRUCK STOP 378 14-214210
Pace Project No.: 9269132

Dear Ms. Dupuis:

Enclosed are the analytical results for sample(s) received by the laboratory on May 11, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: TRUCK STOP 378 14-214210
Pace Project No.: 9269132

Green Bay Certification IDs

New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
California Certification #: 09268CA
New York Certification #: 11887
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04168
Kentucky Certification #: 82
Illinois Certification #: 200050
Florida/NELAP Certification #: E87948
1241 Bellevue Street Green Bay, WI 54302

Charlotte Certification IDs

Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Tennessee Certification #: 04010
Virginia Certification #: 00213
West Virginia Certification #: 357
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
North Carolina Wastewater Certification #: 12
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342

Asheville Certification IDs

2225 Riverside Dr. Asheville, NC 28804
Connecticut Certification #: PH-0106
Virginia Certification #: 00072
Tennessee Certification #: 2980
South Carolina Certification #: 9903001
South Carolina Bioassay Certification #: 9903002
Pennsylvania Certification #: 68-03578
Florida/NELAP Certification #: E87648
Louisiana/LELAP Certification #: 03095
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
West Virginia Certification #: 356

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SAMPLE SUMMARY

Project: TRUCK STOP 378 14-214210
Pace Project No.: 9269132

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9269132001	SB-1	Solid	05/10/10 13:10	05/11/10 16:00
9269132002	SB-2	Solid	05/10/10 12:20	05/11/10 16:00
9269132003	SB-3	Solid	05/10/10 12:50	05/11/10 16:00
9269132004	SB-4	Solid	05/10/10 12:35	05/11/10 16:00
9269132005	SB-5	Solid	05/10/10 12:09	05/11/10 16:00
9269132006	SB-6	Solid	05/10/10 11:45	05/11/10 16:00
9269132007	SB-7	Solid	05/10/10 11:30	05/11/10 16:00
9269132008	SB-8	Solid	05/10/10 10:35	05/11/10 16:00

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SAMPLE ANALYTE COUNT

Project: TRUCK STOP 378 14-214210
Pace Project No.: 9269132

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9269132001	**SB-1**	EPA 6010	JMW	1	PASI-A
		EPA 8260	DLK	11	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
9269132002	**SB-2**	EPA 6010	JMW	1	PASI-A
		EPA 8260	DLK	11	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
9269132003	**SB-3**	EPA 6010	JMW	1	PASI-A
		EPA 8260	DLK	11	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
9269132004	**SB-4**	EPA 6010	JMW	1	PASI-A
		EPA 8260	DLK	11	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
9269132005	**SB-5**	EPA 6010	JMW	1	PASI-A
		EPA 8260	DLK	11	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
9269132006	**SB-6**	EPA 6010	JMW	1	PASI-A
		EPA 8260	DLK	11	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
9269132007	**SB-7**	EPA 6010	JMW	1	PASI-A
		EPA 8260	DLK	11	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
9269132008	**SB-8**	EPA 9060 Modified	DJR	4	PASI-G

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ANALYTICAL RESULTS

Project: TRUCK STOP 378 14-214210
Pace Project No.: 9269132

Sample: SB-1 **Lab ID: 9269132001** Collected: 05/10/10 13:10 Received: 05/11/10 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**13.3**	mg/kg	1.0	0.96	2	05/12/10 15:05	05/14/10 12:13	7439-92-1	D3
8260/5035A SC Volatile Org	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	252	80.7	50		05/13/10 12:16	71-43-2	D3
Ethylbenzene	**260**	ug/kg	252	90.7	50		05/13/10 12:16	100-41-4	
Methyl-tert-butyl ether	ND	ug/kg	252	75.6	50		05/13/10 12:16	1634-04-4	
Naphthalene	**393**	ug/kg	252	60.5	50		05/13/10 12:16	91-20-3	
Toluene	**271**	ug/kg	252	90.7	50		05/13/10 12:16	108-88-3	
m&p-Xylene	**1190**	ug/kg	504	181	50		05/13/10 12:16	179601-23-1	
o-Xylene	**483**	ug/kg	252	95.8	50		05/13/10 12:16	95-47-6	
Dibromofluoromethane (S)	98	%	70-130		50		05/13/10 12:16	1868-53-7	
Toluene-d8 (S)	100	%	70-130		50		05/13/10 12:16	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		50		05/13/10 12:16	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		50		05/13/10 12:16	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.5**	%	0.10	0.10	1		05/12/10 14:44		

Sample: SB-2 **Lab ID: 9269132002** Collected: 05/10/10 12:20 Received: 05/11/10 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**8.5**	mg/kg	0.40	0.38	1	05/12/10 15:05	05/14/10 02:58	7439-92-1	
8260/5035A SC Volatile Org	Analytical Method: EPA 8260								
Benzene	**87.6**	ug/kg	4.6	1.5	1		05/13/10 11:57	71-43-2	
Ethylbenzene	**247**	ug/kg	4.6	1.7	1		05/13/10 11:57	100-41-4	E
Methyl-tert-butyl ether	ND	ug/kg	4.6	1.4	1		05/13/10 11:57	1634-04-4	
Naphthalene	**181**	ug/kg	4.6	1.1	1		05/13/10 11:57	91-20-3	
Toluene	**132**	ug/kg	4.6	1.7	1		05/13/10 11:57	108-88-3	
m&p-Xylene	**1140**	ug/kg	9.2	3.3	1		05/13/10 11:57	179601-23-1	E
o-Xylene	**559**	ug/kg	4.6	1.8	1		05/13/10 11:57	95-47-6	E
Dibromofluoromethane (S)	102	%	70-130		1		05/13/10 11:57	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		05/13/10 11:57	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		1		05/13/10 11:57	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		05/13/10 11:57	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.1**	%	0.10	0.10	1		05/12/10 14:44		

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ANALYTICAL RESULTS

Project: TRUCK STOP 378 14-214210
Pace Project No.: 9269132

Sample: SB-3 **Lab ID: 9269132003** Collected: 05/10/10 12:50 Received: 05/11/10 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**8.5**	mg/kg	0.44	0.42	1	05/12/10 15:05	05/14/10 03:03	7439-92-1	
8260/5035A SC Volatile Org	Analytical Method: EPA 8260								
Benzene	**249**	ug/kg	232	74.1	50		05/12/10 16:25	71-43-2	
Ethylbenzene	**973**	ug/kg	232	83.4	50		05/12/10 16:25	100-41-4	
Methyl-tert-butyl ether	ND	ug/kg	232	69.5	50		05/12/10 16:25	1634-04-4	
Naphthalene	**566**	ug/kg	232	55.6	50		05/12/10 16:25	91-20-3	
Toluene	**2890**	ug/kg	232	83.4	50		05/12/10 16:25	108-88-3	
m&p-Xylene	**4420**	ug/kg	463	167	50		05/12/10 16:25	179601-23-1	
o-Xylene	**1850**	ug/kg	232	88.0	50		05/12/10 16:25	95-47-6	
Dibromofluoromethane (S)	99	%	70-130		50		05/12/10 16:25	1868-53-7	
Toluene-d8 (S)	101	%	70-130		50		05/12/10 16:25	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		50		05/12/10 16:25	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		50		05/12/10 16:25	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.4**	%	0.10	0.10	1		05/12/10 14:45		

Sample: SB-4 **Lab ID: 9269132004** Collected: 05/10/10 12:35 Received: 05/11/10 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**3.2**	mg/kg	0.53	0.51	1	05/12/10 15:05	05/14/10 03:08	7439-92-1	
8260/5035A SC Volatile Org	Analytical Method: EPA 8260								
Benzene	**511**	ug/kg	262	83.7	50		05/12/10 16:43	71-43-2	
Ethylbenzene	**1590**	ug/kg	262	94.1	50		05/12/10 16:43	100-41-4	
Methyl-tert-butyl ether	ND	ug/kg	262	78.5	50		05/12/10 16:43	1634-04-4	
Naphthalene	**648**	ug/kg	262	62.8	50		05/12/10 16:43	91-20-3	
Toluene	**3990**	ug/kg	262	94.1	50		05/12/10 16:43	108-88-3	
m&p-Xylene	**7020**	ug/kg	523	188	50		05/12/10 16:43	179601-23-1	
o-Xylene	**2950**	ug/kg	262	99.4	50		05/12/10 16:43	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		50		05/12/10 16:43	1868-53-7	
Toluene-d8 (S)	100	%	70-130		50		05/12/10 16:43	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		50		05/12/10 16:43	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		50		05/12/10 16:43	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.7**	%	0.10	0.10	1		05/13/10 08:36		

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ANALYTICAL RESULTS

Project: TRUCK STOP 378 14-214210
Pace Project No.: 9269132

Sample: SB-5 Lab ID: **9269132005** Collected: 05/10/10 12:09 Received: 05/11/10 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**7.1**	mg/kg	0.49	0.47	1	05/12/10 15:05	05/14/10 03:12	7439-92-1	
8260/5035A SC Volatile Org	Analytical Method: EPA 8260								
Benzene	**70.9**	ug/kg	4.6	1.5	1		05/12/10 13:58	71-43-2	
Ethylbenzene	**21.7**	ug/kg	4.6	1.6	1		05/12/10 13:58	100-41-4	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1.4	1		05/12/10 13:58	1634-04-4	
Naphthalene	**38.0**	ug/kg	4.6	1.1	1		05/12/10 13:58	91-20-3	
Toluene	**191**	ug/kg	4.6	1.6	1		05/12/10 13:58	108-88-3	E
m&p-Xylene	**90.6**	ug/kg	9.1	3.3	1		05/12/10 13:58	179601-23-1	
o-Xylene	**49.1**	ug/kg	4.6	1.7	1		05/12/10 13:58	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		05/12/10 13:58	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		05/12/10 13:58	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		05/12/10 13:58	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		05/12/10 13:58	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.4**	%	0.10	0.10	1		05/13/10 08:36		

Sample: SB-6 Lab ID: **9269132006** Collected: 05/10/10 11:45 Received: 05/11/10 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**7.2**	mg/kg	2.4	2.3	5	05/12/10 15:05	05/14/10 12:16	7439-92-1	D3
8260/5035A SC Volatile Org	Analytical Method: EPA 8260								
Benzene	**496**	ug/kg	6.2	2.0	1		05/12/10 14:16	71-43-2	E
Ethylbenzene	**15900**	ug/kg	3100	1120	500		05/14/10 00:27	100-41-4	
Methyl-tert-butyl ether	ND	ug/kg	6.2	1.9	1		05/12/10 14:16	1634-04-4	
Naphthalene	**6190**	ug/kg	3100	744	500		05/14/10 00:27	91-20-3	
Toluene	**36600**	ug/kg	3100	1120	500		05/14/10 00:27	108-88-3	
m&p-Xylene	**61100**	ug/kg	6200	2230	500		05/14/10 00:27	179601-23-1	
o-Xylene	**24900**	ug/kg	3100	1180	500		05/14/10 00:27	95-47-6	
Dibromofluoromethane (S)	99	%	70-130		1		05/12/10 14:16	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/12/10 14:16	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		1		05/12/10 14:16	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		05/12/10 14:16	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.1**	%	0.10	0.10	1		05/13/10 08:36		

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ANALYTICAL RESULTS

Project: TRUCK STOP 378 14-214210
Pace Project No.: 9269132

Sample: SB-7 **Lab ID: 9269132007** Collected: 05/10/10 11:30 Received: 05/11/10 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**22.2**	mg/kg	2.3	2.2	5	05/12/10 15:05	05/14/10 12:20	7439-92-1	D3
8260/5035A SC Volatile Org	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	4.9	1.6	1		05/13/10 11:39	71-43-2	
Ethylbenzene	ND	ug/kg	4.9	1.8	1		05/13/10 11:39	100-41-4	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1.5	1		05/13/10 11:39	1634-04-4	
Naphthalene	ND	ug/kg	4.9	1.2	1		05/13/10 11:39	91-20-3	
Toluene	ND	ug/kg	4.9	1.8	1		05/13/10 11:39	108-88-3	
m&p-Xylene	ND	ug/kg	9.9	3.6	1		05/13/10 11:39	179601-23-1	
o-Xylene	ND	ug/kg	4.9	1.9	1		05/13/10 11:39	95-47-6	
Dibromofluoromethane (S)	105	%	70-130		1		05/13/10 11:39	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		05/13/10 11:39	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		05/13/10 11:39	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		05/13/10 11:39	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.6**	%	0.10	0.10	1		05/13/10 08:37		

Sample: SB-8 **Lab ID: 9269132008** Collected: 05/10/10 10:35 Received: 05/11/10 16:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon	Analytical Method: EPA 9060 Modified								
RPD%	**66.6**	%			1		05/18/10 09:32		1g
Total Organic Carbon	ND	mg/kg	250	70.0	1		05/18/10 09:29	7440-44-0	
Total Organic Carbon	ND	mg/kg	250	70.0	1		05/18/10 09:32	7440-44-0	
Mean Total Organic Carbon	ND	mg/kg	250	70.0	1		05/18/10 09:32	7440-44-0	

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QUALITY CONTROL DATA

Project: TRUCK STOP 378 14-214210
Pace Project No.: 9269132

QC Batch: MPRP/6314 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 9269132001, 9269132002, 9269132003, 9269132004, 9269132005, 9269132006, 9269132007

METHOD BLANK: 440933 Matrix: Solid
Associated Lab Samples: 9269132001, 9269132002, 9269132003, 9269132004, 9269132005, 9269132006, 9269132007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	0.50	05/14/10 02:21	

LABORATORY CONTROL SAMPLE: 440934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	47.4	95	80-120	

MATRIX SPIKE SAMPLE: 440935

Parameter	Units	9269063001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	0.955 ug/g	49	46.8	93	75-125	

SAMPLE DUPLICATE: 440936

Parameter	Units	9269063002 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	mg/kg	ND	ND		20	

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QUALITY CONTROL DATA

Project: TRUCK STOP 378 14-214210
Pace Project No.: 9269132

QC Batch: MSV/10894 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9269132001, 9269132002, 9269132003, 9269132004, 9269132005, 9269132006, 9269132007

METHOD BLANK: 440748 Matrix: Solid
Associated Lab Samples: 9269132001, 9269132002, 9269132003, 9269132004, 9269132005, 9269132006, 9269132007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	05/12/10 13:03	
Ethylbenzene	ug/kg	ND	5.0	05/12/10 13:03	
m&p-Xylene	ug/kg	ND	10.0	05/12/10 13:03	
Methyl-tert-butyl ether	ug/kg	ND	5.0	05/12/10 13:03	
Naphthalene	ug/kg	2.3J	5.0	05/12/10 13:03	
o-Xylene	ug/kg	ND	5.0	05/12/10 13:03	
Toluene	ug/kg	ND	5.0	05/12/10 13:03	
1,2-Dichloroethane-d4 (S)	%	99	70-130	05/12/10 13:03	
4-Bromofluorobenzene (S)	%	98	70-130	05/12/10 13:03	
Dibromofluoromethane (S)	%	100	70-130	05/12/10 13:03	
Toluene-d8 (S)	%	101	70-130	05/12/10 13:03	

METHOD BLANK: 442337 Matrix: Solid
Associated Lab Samples: 9269132001, 9269132002, 9269132003, 9269132004, 9269132005, 9269132006, 9269132007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	05/13/10 11:02	
Ethylbenzene	ug/kg	ND	5.0	05/13/10 11:02	
m&p-Xylene	ug/kg	ND	10.0	05/13/10 11:02	
Methyl-tert-butyl ether	ug/kg	ND	5.0	05/13/10 11:02	
Naphthalene	ug/kg	ND	5.0	05/13/10 11:02	
o-Xylene	ug/kg	ND	5.0	05/13/10 11:02	
Toluene	ug/kg	ND	5.0	05/13/10 11:02	
1,2-Dichloroethane-d4 (S)	%	105	70-130	05/13/10 11:02	
4-Bromofluorobenzene (S)	%	99	70-130	05/13/10 11:02	
Dibromofluoromethane (S)	%	105	70-130	05/13/10 11:02	
Toluene-d8 (S)	%	101	70-130	05/13/10 11:02	

LABORATORY CONTROL SAMPLE: 440749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	50	55.3	111	70-130	
Ethylbenzene	ug/kg	50	56.8	114	70-130	
m&p-Xylene	ug/kg	100	115	115	70-130	
Methyl-tert-butyl ether	ug/kg	50	57.8	116	70-130	
Naphthalene	ug/kg	50	59.9	120	70-130	
o-Xylene	ug/kg	50	57.6	115	70-130	
Toluene	ug/kg	50	54.9	110	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	

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QUALITY CONTROL DATA

Project: TRUCK STOP 378 14-214210
Pace Project No.: 9269132

LABORATORY CONTROL SAMPLE: 440749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: TRUCK STOP 378 14-214210
Pace Project No.: 9269132

QC Batch: PMST/3182
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9269132001, 9269132002, 9269132003

SAMPLE DUPLICATE: 440574

Parameter	Units	9268375004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.4	27.0	2	25	

SAMPLE DUPLICATE: 440575

Parameter	Units	9269132003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.4	12.7	5	25	

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QUALITY CONTROL DATA

Project: TRUCK STOP 378 14-214210
Pace Project No.: 9269132

QC Batch: PMST/3183 — Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 — Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9269132004, 9269132005, 9269132006, 9269132007

SAMPLE DUPLICATE: 440960

Parameter	Units	9269132004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.7	15.7	12	25	

SAMPLE DUPLICATE: 440961

Parameter	Units	9269219004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.8	10.7	1	25	

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QUALITY CONTROL DATA

Project: TRUCK STOP 378 14-214210
Pace Project No.: 9269132

QC Batch: WETA/6414
QC Batch Method: EPA 9060 Modified
Associated Lab Samples: 9269132008
Analysis Method: EPA 9060 Modified
Analysis Description: 9060 TOC Average

METHOD BLANK: 301120
Matrix: Solid
Associated Lab Samples: 9269132008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/kg	ND	250	05/18/10 09:04	

LABORATORY CONTROL SAMPLE: 301121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/kg	1000	994	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 301122 301123

Parameter	Units	9269132008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mean Total Organic Carbon	mg/kg	ND	500	500	501	535	90	97	50-150	7	30	

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QUALIFIERS

Project: TRUCK STOP 378 14-214210
Pace Project No.: 9269132

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-G	Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: WETA/6414

[WB] Results reported on dry weight basis per cited method.

Batch: WETA/6415

[WB] Results reported on dry weight basis per cited method.

ANALYTE QUALIFIERS

1g	The RPD is >/=40%. Results are < the reporting limit (RDL) so no additional repetitions were analyzed.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TRUCK STOP 378 14-214210
Pace Project No.: 9269132

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9269132001	SB-1	EPA 3050	MPRP/6314	EPA 6010	ICP/5826
9269132002	SB-2	EPA 3050	MPRP/6314	EPA 6010	ICP/5826
9269132003	SB-3	EPA 3050	MPRP/6314	EPA 6010	ICP/5826
9269132004	SB-4	EPA 3050	MPRP/6314	EPA 6010	ICP/5826
9269132005	SB-5	EPA 3050	MPRP/6314	EPA 6010	ICP/5826
9269132006	SB-6	EPA 3050	MPRP/6314	EPA 6010	ICP/5826
9269132007	SB-7	EPA 3050	MPRP/6314	EPA 6010	ICP/5826
9269132001	SB-1	EPA 8260	MSV/10894		
9269132002	SB-2	EPA 8260	MSV/10894		
9269132003	SB-3	EPA 8260	MSV/10894		
9269132004	SB-4	EPA 8260	MSV/10894		
9269132005	SB-5	EPA 8260	MSV/10894		
9269132006	SB-6	EPA 8260	MSV/10894		
9269132007	SB-7	EPA 8260	MSV/10894		
9269132001	SB-1	ASTM D2974-87	PMST/3182		
9269132002	SB-2	ASTM D2974-87	PMST/3182		
9269132003	SB-3	ASTM D2974-87	PMST/3182		
9269132004	SB-4	ASTM D2974-87	PMST/3183		
9269132005	SB-5	ASTM D2974-87	PMST/3183		
9269132006	SB-6	ASTM D2974-87	PMST/3183		
9269132007	SB-7	ASTM D2974-87	PMST/3183		
9269132008	SB-8	EPA 9060 Modified	WETA/6414		
9269132008	SB-8	EPA 9060 Modified	WETA/6415		

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Analytical Environmental Services, Inc.

Date: *21-May-10*

CLIENT: Pace Analytical Services, Inc.
Project: 9269132
Lab ID: 1005F16-001

Client Sample ID: SB-1
Collection Date: 5/10/2010 1:10:00 PM
Matrix: SOLID

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
SIM POLYNUCLEAR AROMATIC HYDROCARBONS SW8270D				**(SW3550C)**			Analyst: **YH**
1-Methylnaphthalene	BRL	19		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
2-Methylnaphthalene	BRL	19		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
Acenaphthene	BRL	19		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
Acenaphthylene	BRL	37		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
Anthracene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
Benz(a)anthracene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
Benzo(a)pyrene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
Benzo(b)fluoranthene	BRL	3.7		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
Benzo(g,h,i)perylene	BRL	3.7		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
Benzo(k)fluoranthene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
Chrysene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
Dibenz(a,h)anthracene	BRL	3.7		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
Fluoranthene	BRL	3.7		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
Fluorene	BRL	3.7		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
Indeno(1,2,3-cd)pyrene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
Naphthalene	BRL	19		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
Phenanthrene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
Pyrene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 12:40 PM
Surr: 4-Terphenyl-d14	82.0	33.1-123		%REC	129756	1	5/21/2010 12:40 PM
PERCENT MOISTURE D2216							Analyst: **AZS**
Percent Moisture	10.6	0		wt%		1	5/21/2010 2:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *21-May-10*

CLIENT:	Pace Analytical Services, Inc.	**Client Sample ID:**	SB-2
Project:	9269132	**Collection Date:**	5/10/2010 12:20:00 PM
Lab ID:	1005F16-002	**Matrix:**	SOLID

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
SIM POLYNUCLEAR AROMATIC HYDROCARBONS		**SW8270D**		**(SW3550C)**			Analyst: **YH**
1-Methylnaphthalene	BRL	20		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
2-Methylnaphthalene	BRL	20		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
Acenaphthene	BRL	20		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
Acenaphthylene	BRL	38		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
Anthracene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
Benz(a)anthracene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
Benzo(a)pyrene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
Benzo(b)fluoranthene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
Benzo(g,h,i)perylene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
Benzo(k)fluoranthene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
Chrysene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
Dibenz(a,h)anthracene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
Fluoranthene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
Fluorene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
Indeno(1,2,3-cd)pyrene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
Naphthalene	BRL	20		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
Phenanthrene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
Pyrene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:06 PM
Surr: 4-Terphenyl-d14	72.5	33.1-123		%REC	129756	1	5/21/2010 1:06 PM
PERCENT MOISTURE D2216							Analyst: **AZS**
Percent Moisture	13.7	0		wt%		1	5/21/2010 2:00 PM

Qualifiers: *	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *21-May-10*

CLIENT:	Pace Analytical Services, Inc.	**Client Sample ID:**	SB-3
Project:	9269132	**Collection Date:**	5/10/2010 12:50:00 PM
Lab ID:	1005F16-003	**Matrix:**	SOLID

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
SIM POLYNUCLEAR AROMATIC HYDROCARBONS		**SW8270D**		**(SW3550C)**			Analyst: **YH**
1-Methylnaphthalene	93	20		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
2-Methylnaphthalene	190	20		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
Acenaphthene	BRL	20		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
Acenaphthylene	BRL	38		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
Anthracene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
Benz(a)anthracene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
Benzo(a)pyrene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
Benzo(b)fluoranthene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
Benzo(g,h,i)perylene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
Benzo(k)fluoranthene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
Chrysene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
Dibenz(a,h)anthracene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
Fluoranthene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
Fluorene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
Indeno(1,2,3-cd)pyrene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
Naphthalene	53	20		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
Phenanthrene	7.0	2.0		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
Pyrene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:32 PM
Surr: 4-Terphenyl-d14	88.5	33.1-123		%REC	129756	1	5/21/2010 1:32 PM
PERCENT MOISTURE D2216							Analyst: **AZS**
Percent Moisture	14.4	0		wt%		1	5/21/2010 2:00 PM

Qualifiers:			
*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *21-May-10*

CLIENT:	Pace Analytical Services, Inc.	**Client Sample ID:**	SB-4
Project:	9269132	**Collection Date:**	5/10/2010 12:35:00 PM
Lab ID:	1005F16-004	**Matrix:**	SOLID

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
SIM POLYNUCLEAR AROMATIC HYDROCARBONS SW8270D				**(SW3550C)**			Analyst: **YH**
1-Methylnaphthalene	BRL	20		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
2-Methylnaphthalene	BRL	20		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
Acenaphthene	BRL	20		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
Acenaphthylene	BRL	38		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
Anthracene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
Benz(a)anthracene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
Benzo(a)pyrene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
Benzo(b)fluoranthene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
Benzo(g,h,i)perylene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
Benzo(k)fluoranthene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
Chrysene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
Dibenz(a,h)anthracene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
Fluoranthene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
Fluorene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
Indeno(1,2,3-cd)pyrene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
Naphthalene	BRL	20		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
Phenanthrene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
Pyrene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 1:58 PM
Surr: 4-Terphenyl-d14	81.0	33.1-123		%REC	129756	1	5/21/2010 1:58 PM
PERCENT MOISTURE D2216							Analyst: **AZS**
Percent Moisture	13.8	0		wt%		1	5/21/2010 2:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *21-May-10*

CLIENT:	Pace Analytical Services, Inc.	**Client Sample ID:**	SB-5
Project:	9269132	**Collection Date:**	5/10/2010 12:09:00 PM
Lab ID:	1005F16-005	**Matrix:**	SOLID

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
SIM POLYNUCLEAR AROMATIC HYDROCARBONS		**SW8270D**		**(SW3550C)**			Analyst: **YH**
1-Methylnaphthalene	360	190		ug/Kg-dry	129756	10	5/21/2010 3:59 PM
2-Methylnaphthalene	780	190		ug/Kg-dry	129756	10	5/21/2010 3:59 PM
Acenaphthene	BRL	19		ug/Kg-dry	129756	1	5/21/2010 2:24 PM
Acenaphthylene	BRL	36		ug/Kg-dry	129756	1	5/21/2010 2:24 PM
Anthracene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 2:24 PM
Benz(a)anthracene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 2:24 PM
Benzo(a)pyrene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 2:24 PM
Benzo(b)fluoranthene	BRL	3.6		ug/Kg-dry	129756	1	5/21/2010 2:24 PM
Benzo(g,h,i)perylene	BRL	3.6		ug/Kg-dry	129756	1	5/21/2010 2:24 PM
Benzo(k)fluoranthene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 2:24 PM
Chrysene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 2:24 PM
Dibenz(a,h)anthracene	BRL	3.6		ug/Kg-dry	129756	1	5/21/2010 2:24 PM
Fluoranthene	BRL	3.6		ug/Kg-dry	129756	1	5/21/2010 2:24 PM
Fluorene	BRL	3.6		ug/Kg-dry	129756	1	5/21/2010 2:24 PM
Indeno(1,2,3-cd)pyrene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 2:24 PM
Naphthalene	740	190		ug/Kg-dry	129756	10	5/21/2010 3:59 PM
Phenanthrene	7.3	1.9		ug/Kg-dry	129756	1	5/21/2010 2:24 PM
Pyrene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 2:24 PM
Surr: 4-Terphenyl-d14	71.5	33.1-123		%REC	129756	1	5/21/2010 2:24 PM
PERCENT MOISTURE		**D2216**					Analyst: **AZS**
Percent Moisture	9.26	0		wt%		1	5/21/2010 2:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *21-May-10*

CLIENT:	Pace Analytical Services, Inc.	**Client Sample ID:**	SB-6
Project:	9269132	**Collection Date:**	5/10/2010 11:45:00 AM
Lab ID:	1005F16-006	**Matrix:**	SOLID

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
SIM POLYNUCLEAR AROMATIC HYDROCARBONS		**SW8270D**		**(SW3550C)**			Analyst: **YH**
1-Methylnaphthalene	BRL	20		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
2-Methylnaphthalene	33	20		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
Acenaphthene	BRL	20		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
Acenaphthylene	BRL	39		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
Anthracene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
Benz(a)anthracene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
Benzo(a)pyrene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
Benzo(b)fluoranthene	BRL	3.9		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
Benzo(g,h,i)perylene	BRL	3.9		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
Benzo(k)fluoranthene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
Chrysene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
Dibenz(a,h)anthracene	BRL	3.9		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
Fluoranthene	BRL	3.9		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
Fluorene	BRL	3.9		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
Indeno(1,2,3-cd)pyrene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
Naphthalene	BRL	20		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
Phenanthrene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
Pyrene	BRL	2.0		ug/Kg-dry	129756	1	5/21/2010 3:07 PM
Surr: 4-Terphenyl-d14	70.5	33.1-123		%REC	129756	1	5/21/2010 3:07 PM
PERCENT MOISTURE D2216							Analyst: **AZS**
Percent Moisture	14.5	0		wt%		1	5/21/2010 2:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *21-May-10*

CLIENT: Pace Analytical Services, Inc.
Project: 9269132
Lab ID: 1005F16-007

Client Sample ID: SB-7
Collection Date: 5/10/2010 11:30:00 AM
Matrix: SOLID

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
SIM POLYNUCLEAR AROMATIC HYDROCARBONS	**SW8270D**			**(SW3550C)**			Analyst: **YH**
1-Methylnaphthalene	BRL	19		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
2-Methylnaphthalene	BRL	19		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
Acenaphthene	BRL	19		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
Acenaphthylene	BRL	38		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
Anthracene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
Benz(a)anthracene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
Benzo(a)pyrene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
Benzo(b)fluoranthene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
Benzo(g,h,i)perylene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
Benzo(k)fluoranthene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
Chrysene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
Dibenz(a,h)anthracene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
Fluoranthene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
Fluorene	BRL	3.8		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
Indeno(1,2,3-cd)pyrene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
Naphthalene	BRL	19		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
Phenanthrene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
Pyrene	BRL	1.9		ug/Kg-dry	129756	1	5/21/2010 3:34 PM
Surr: 4-Terphenyl-d14	75.0	33.1-123		%REC	129756	1	5/21/2010 3:34 PM
PERCENT MOISTURE **D2216**							Analyst: **AZS**
Percent Moisture	12.3	0		wt%		1	5/21/2010 2:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Analytical Environmental Services, Inc.

Date: *18-May-10*

CLIENT:	Pace Analytical Services, Inc.	**Client Sample ID:**	SB-5
Project:	9269132	**Collection Date:**	5/10/2010 12:09:00 PM
Lab ID:	1005B03-005	**Matrix:**	SOLID

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS SW8015C				**(SW3550C)**			Analyst: **TC**
TPH (Diesel Range Organics)	BRL	7.4		mg/Kg-dry	129563	1	5/18/2010 10:46 AM
Surr: Dioctylphthalate	57.8	51.4-148		%REC	129563	1	5/18/2010 10:46 AM

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank	<	Less than Result value
>	Greater than Result value		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1380442

Section A
Required Client Information:

Company: Environmental Compliance serv.
Address: 13504 S. Point Blvd unit F
Charlotte, NC 28273
Email To: LDupuis@ecsconsult.com
Phone: 7045837271 Fax:
Requested Due Date/TAT: STD

Section B
Required Project Information:

Report To: Christine Dupuis
Copy To:
Purchase Order No.:
Project Name: Truckstop 378
Project Number: 14-214210

Section C
Invoice Information:

Attention: Christine white
Company Name: ECS
Address: 588 Silver St Agawam MA 01001
Pace Quote Reference:
Pace Project Manager: Kevin Herring
Pace Profile #: 2291-4

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D
Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEXMH	PAHs	Total lead	TPHDRO	TOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SB-1	SL	G			5/10	13:10		6						X	X		X	X	X				92691322001
2	SB-2						12:20		6															002
3	SB-3						12:50		6															003
4	SB-4						12:35		6															004
5	SB-5						12:05		7															005
6	SB-6						11:45		6												X			006
7	SB-7						11:30		6															007
8	SB-8						10:35		1	X												X		008
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Report J values	Ryan Byas/ECS	5/10/10	20:25	[signature]/Pace	05/11/10	1340				
	[signature]/Pace	05/11/10	1600	[signature]/Pace	5/11/10	1620	4.1	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE						
PRINT Name of SAMPLER:	Ryan Byas		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	Ryan Byas	DATE Signed (MM/DD/YY): 05/10/10				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and ...

Pace Analytical

Sample Condition Upon Receipt

Client Name: ESC Project # 9269132

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other________

Optional	
Proj. Due Date:	N/A
Proj. Name:	N/A

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other________

Thermometer Used T060 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 9.1 Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: MMM-5/11/10

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12. #8 = SB-8
-Includes date/time/ID/Analysis Matrix:________				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		____ Initial when completed
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased): N/A				

Client Notification/ Resolution:

Field Data Required? Y / N / N/A

Person Contacted: ____________________ Date/Time: ____________

Comments/ Resolution: ____________________

Project Manager Review: [signature] Date: 5/12/10

lote: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR

GAUGE REPORT

Environmental Compliance Services, Inc.
13504 South Point Blvd., Unit F
Charlotte, North Carolina 28273

Project Name	378 Truck Stop	Location	Edgefield, SC
Project No.	14-214210	Date	05/25/10
Measured By	R. Byas	Weather	Cloudy, 80s

AM Readings

Well ID	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Product Recovered (gallons)	Well Depth (feet)	Volume Purged (gallons)
MW-1	NM	NM	NM	-----	NM	-----
MW-2	NM	NM	NM	-----	NM	-----
MW-3	-----	17.28	-----	-----	~45	-----
MW-4	-----	16.35	-----	-----	~45	-----
MW-5	-----	27.30	-----	-----	~45	-----

PM Readings

Well ID	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Product Recovered (gallons)	Well Depth (feet)	Volume Purged (gallons)
MW-1	15.33	15.37	0.04	-----	NM	-----
MW-2	-----	16.82	-----	-----	41.72	4.06
MW-3	-----	17.52	-----	-----	40.12	3.68
MW-4	-----	22.29	-----	-----	40.09	2.90
MW-5	-----	34.19	-----	-----	39.79	0.91

Remarks: NM = not measured.
Wells MW-3, MW-4, and MW-5 were each installed to 45 ft on 5/24/10.
Wells were gauged in the morning on 5/25/10 after allowing to equilibrate overnight. Wells were then pulled up to 40 ft each and gauged later in the day.
AM readings may be more representative of actual depth to water in these wells.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 05/25/10
Field Personnel R. Byas
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba	Conductivity Meter	Horiba
serial no.		serial no.	
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
-----	-----	-----	-----

Well # **MW-1**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) NM ft.
Depth to GW(DGW) 15.37 ft.
Depth to Liquid Phase Hydrocarbons (LPH) 15.33 ft.
Thickness of LPH (Thickness=DGW-Depth to LPH) 0.04 ft.
Length of Water Column (LWC=TWD-DGW) ---- ft.

1Csg. Vol. (LWC*C)= ---- X 0.163 = ---- gal.
3Csg. Volume = 3x ---- = ---- gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling ----- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
O.R.P. (mV)								
Temperature (°C)								
Specific Cond. (umhos/cm)								
Dissolved Oxygen (mg/L)								
Turbidity								

*Subjective (1) None (2) Faint (3) Moderate (4) Strong

Remarks Free product detected. Groundwater sample not collected.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 05/25/10
Field Personnel R. Byas
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba	Conductivity Meter	Horiba
serial no.		serial no.	
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
R. Byas	5/26/10 16:45	Pace	5/26/10 16:45

Well # **MW-2**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 41.72 ft.
Depth to GW(DGW) 16.82 ft.

Length of Water Column (LWC=TWD-DGW) 24.90 ft.

1Csg. Vol. (LWC*C)= 24.90 X 0.163 = 4.06 gal.
3Csg. Volume = 3x 4.06 = 12.18 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 4.06 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	4.06						0.00
Time (military)	18:40	18:50						19:00
pH (s.u.)	6.42	6.46						6.44
O.R.P. (mV)	16	-14						-11
Temperature (°C)	20.8	20.4						20.5
Specific Cond. (ms/cm)	0.474	0.466						0.471
Dissolved Oxygen (mg/L)	4.21	2.02						1.35
Turbidity (NTU)	87.2	>999						>999

*Subjective (1) None (2) Faint (3) Moderate (4) Strong

Remarks Purged dry after 1 well volume.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 05/25/10
Field Personnel R. Byas
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba	Conductivity Meter	Horiba
serial no.		serial no.	
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
R. Byas	5/26/10 16:45	Pace	5/26/10 16:45

Well # **MW-3**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.12 ft.
Depth to GW(DGW) 17.52 ft.

Length of Water Column (LWC=TWD-DGW) 22.60 ft.

1Csg. Vol. (LWC*C)= 22.60 X 0.163 = 3.68 gal.
3Csg. Volume = 3x 3.68 = 11.05 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 3.68 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	3.68						0.00
Time (military)	18:00	18:12						18:25
pH (s.u.)	6.46	6.32						6.52
O.R.P. (mV)	52	85						84
Temperature (°C)	22.0	20.7						21.3
Specific Cond. (ms/cm)	0.318	0.380						0.317
Dissolved Oxygen (mg/L)	5.15	5.62						5.02
Turbidity (NTU)	124	>999						>999

*Subjective (1) None (2) Faint (3) Moderate (4) Strong

Remarks Purged dry after 1 well volume.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 05/25/10
Field Personnel R. Byas
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba	Conductivity Meter	Horiba
serial no.		serial no.	
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
R. Byas	5/26/10 16:45	Pace	5/26/10 16:45

Well # **MW-4**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.09 ft.
Depth to GW(DGW) 22.29 ft.

Length of Water Column (LWC=TWD-DGW) 17.80 ft.

1Csg. Vol. (LWC*C)= 17.80 X 0.163 = 2.90 gal.
3Csg. Volume = 3x 2.90 = 8.70 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 2.90 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.90						0.00
Time (military)	19:05	19:08						19:25
pH (s.u.)	6.57	6.48						6.71
O.R.P. (mV)	61	97						72
Temperature (°C)	20.4	19.9						19.9
Specific Cond. (ms/cm)	0.363	0.534						0.412
Dissolved Oxygen (mg/L)	4.01	7.65						6.21
Turbidity (NTU)	>999	>999						>999

*Subjective (1) None (2) Faint (3) Moderate (4) Strong

Remarks Purged dry after 1 well volume.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 05/25/10
Field Personnel R. Byas
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba	Conductivity Meter	Horiba
serial no.		serial no.	
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
R. Byas	5/26/10 16:45	Pace	5/26/10 16:45

Well # **MW-5**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 39.79 ft.
Depth to GW(DGW) 34.19 ft.

Length of Water Column (LWC=TWD-DGW) 5.60 ft.

1Csg. Vol. (LWC*C)= 5.60 X 0.163 = 0.91 gal.
3Csg. Volume = 3x 0.91 = 2.74 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.91 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	0.91						0.00
Time (military)	19:40	19:43						19:50
pH (s.u.)	7.15	7.03						7.07
O.R.P. (mV)	121	123						128
Temperature (°C)	19.1	18.8						18.9
Specific Cond. (ms/cm)	0.791	0.770						0.772
Dissolved Oxygen (mg/L)	10.16	9.63						9.16
Turbidity (NTU)	193	>999						742

*Subjective (1) None (2) Faint (3) Moderate (4) Strong

Remarks Purged dry after 1 well volume.

SUMMARY of SLUG TEST ANALYSES

SOUTH CAROLINA
Department of Health and Environmental Control (DHEC)

Site Data

SITE ID #: 07960 COUNTY: Edgefield

FACILITY NAME: 378 Truck Stop

Slug Data

See
Appendix E Table ______ Figure ______ for a list of all data measurements.
(water level logs, etc.) (Complete as appropriate).

Water Level Recovery Data was measured by Level Troll
(Hermit Data Logger, Manually with Water Level Indicator, etc.) (List Method)

Complete the following table for each well tested.
COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED.

Slug Test Conducted in well(s) Number	MW-2	MW-3		
Initial Rise/Drawdown in well (feet)	2.537	2.201		
Radius of Well Casing (feet)	0.083333	0.083333		
Effective Radius of Well (feet)	0.270833	0.270833		
Static Saturated Aquifer Thickness (feet)	31	36.00		
Length of Well Screen (feet)	10	30		
Static Height of Water Column in Well (feet)	16.82	17.52		

Calculations

See
Appendix E Table ______ Figure ______ for calculations. (Complete as appropriate).
The method for aquifer calculations was Bouwer-Rice (I.e. Bouwer-Rice, Cooper, etc.)
Calculated values by well were as follows:

Slug Test Conducted in well(s) number	MW-2	MW-3		
Hydraulic Conductivity (ft/day)	0.1091	0.1778		

Thickness of the aquifer used to calculate MW-2 hydraulic conductivity was 31.00 feet.
The aquifer is ______ confined ______ semi-confined X water table.

Thickness of the aquifer used to calculate MW-3 hydraulic conductivity was 36.00 feet.
The aquifer is ______ confined ______ semi-confined X water table.

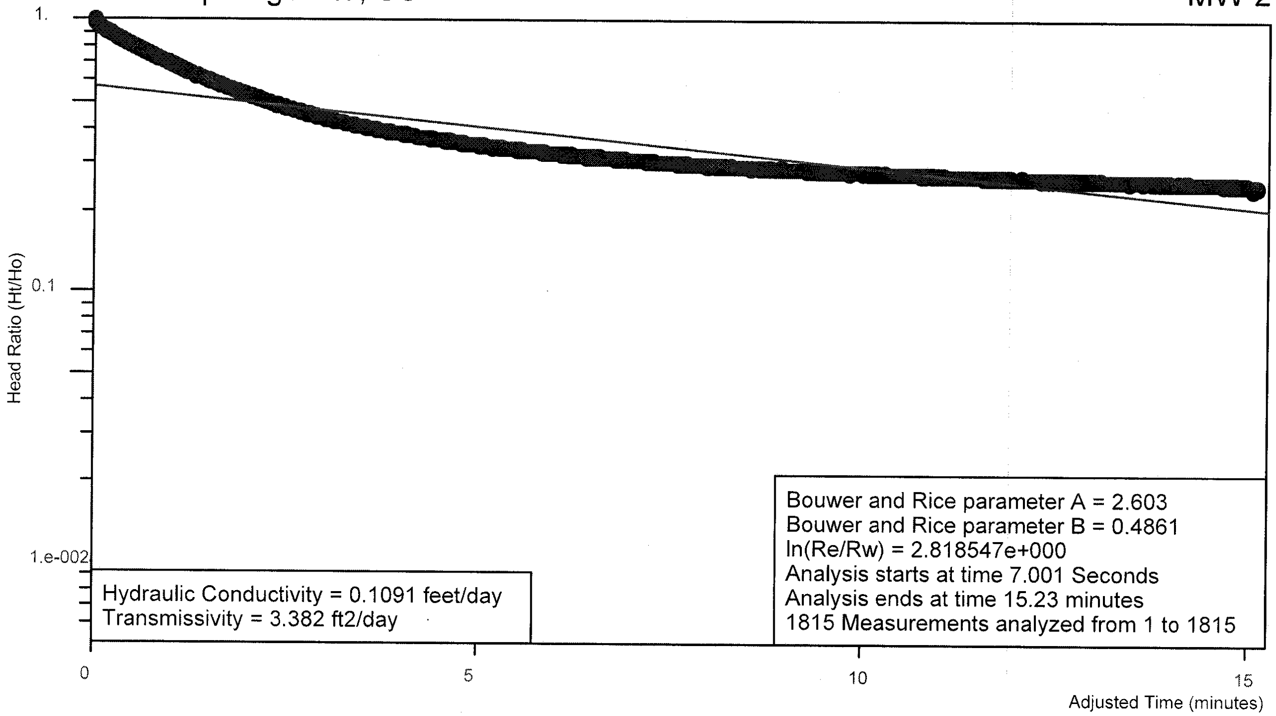
The estimated seepage velocity is 19.21 & 31.31 feet/year based on
a hydraulic conductivity of 0.1091 ft/day & 0.1778 ft/day a hydraulic gradient of 0.0386 ft/ft and
a porosity of 8 per cent for a SILT soil (list type).

MW-2 Slug Test 5/25/10

378 Truck Stop Edgefield, SC

Bouwer and Rice Graph

MW-2



Ho is 2.65 feet at 7.001 Seconds

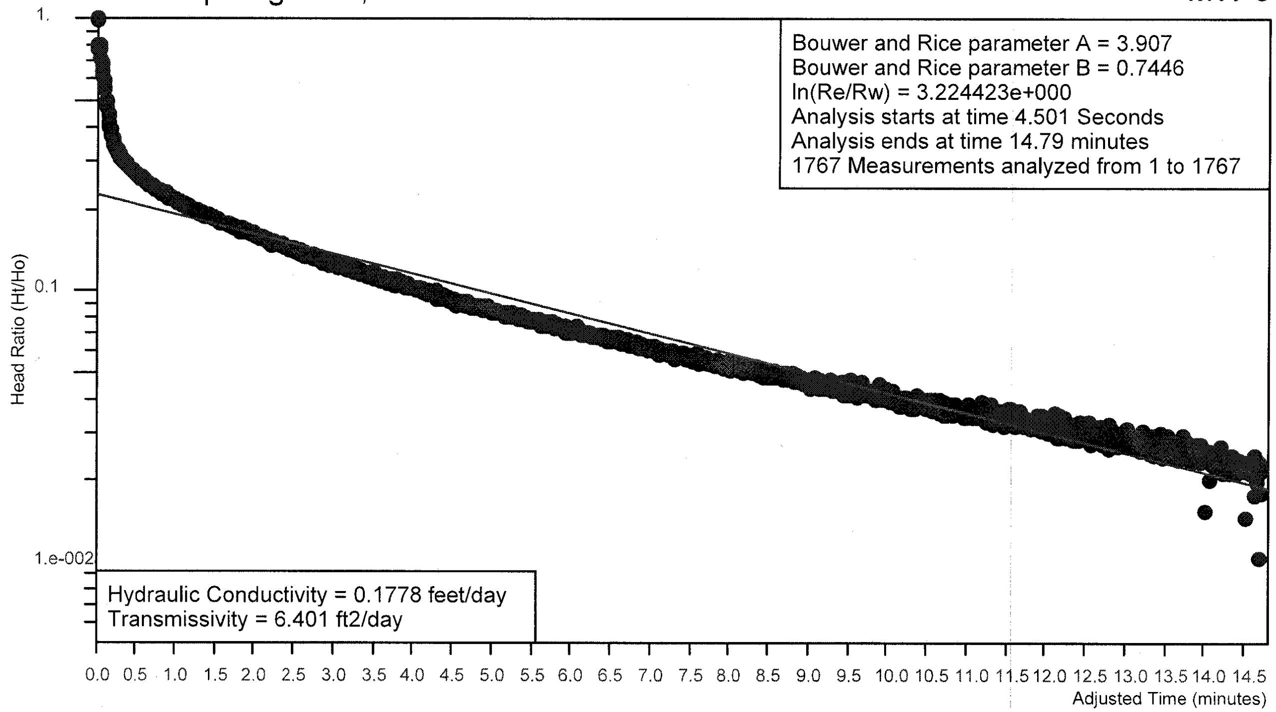
Project Number: 14-214210 for Wilkerson Fuel Company, Inc.
Analysis by Starpoint Software

MW-3 Slug Test 5/25/10

Bouwer and Rice Graph

378 Truck Stop Edgefield, SC

MW-3



Project Number: 14-214210 for Wilkerson Fuel Company, Inc.
Analysis by Starpoint Software

Ho is 2.228 feet at 4.501 Seconds

MW-2 Slug Test

Site Name:	378 Truck Stop
Location:	Edgefield, SC
Test Date:	5/25/10
Client:	Wilkerson Fuel Company, Inc.
Project Number:	14-214210
Import File:	F:\Projects\14-214210 378 Truck Stop\Tier I\378 truck stop Slug tests\MW-2.txt

Well Label:	MW-2
Aquifer Thickness:	31. feet
Screen Length:	10. feet
Casing Radius:	1. Inches
Effective Radius:	3.25 Inches
Static Water Level:	-0.1128 feet
Water Table to Screen Bottom:	24.9 feet
Anisotropy Ratio:	1.
Time Adjustment:	7.001 Seconds

Test starts with trial 0
There are 1815 time and drawdown measurements
Maximum head is 2.65 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	7.001	0.	2.537	2.65	1.
2	7.501	0.5	2.447	2.56	0.966
3	8.001	1.	2.459	2.572	0.9706
4	8.501	1.5	2.443	2.556	0.9645
5	9.001	2.	2.415	2.528	0.954
6	9.501	2.5	2.418	2.531	0.9551
7	10.	2.999	2.398	2.511	0.9475
8	10.5	3.499	2.395	2.508	0.9464
9	11.	3.999	2.383	2.496	0.9419
10	11.5	4.499	2.371	2.484	0.9374
11	12.	4.999	2.368	2.481	0.9362
12	12.5	5.499	2.357	2.47	0.9321
13	13.	5.999	2.355	2.468	0.9313
14	13.5	6.499	2.347	2.46	0.9283
15	14.	6.999	2.335	2.448	0.9238
16	14.5	7.499	2.322	2.435	0.9189
17	15.	7.999	2.316	2.429	0.9166
18	15.5	8.499	2.309	2.422	0.914
19	16.	8.999	2.309	2.422	0.914
20	16.5	9.499	2.295	2.408	0.9087
21	17.	9.999	2.287	2.4	0.9057
22	17.5	10.5	2.278	2.391	0.9023
23	18.	11.	2.281	2.394	0.9034
24	18.5	11.5	2.266	2.379	0.8977
25	19.	12.	2.257	2.37	0.8943
26	19.5	12.5	2.255	2.368	0.8936
27	20.	13.	2.249	2.362	0.8913
28	20.5	13.5	2.244	2.357	0.8894
29	21.	14.	2.227	2.34	0.883
30	21.5	14.5	2.223	2.336	0.8815
31	22.	15.	2.216	2.329	0.8789
32	22.5	15.5	2.209	2.322	0.8762
33	23.	16.	2.202	2.315	0.8736

34	23.5	16.5	2.193	2.306	0.8702
35	24.	17.	2.185	2.298	0.8672
36	24.5	17.5	2.182	2.295	0.866
37	25.	18.	2.174	2.287	0.863
38	25.5	18.5	2.165	2.278	0.8596
39	26.	19.	2.162	2.275	0.8585
40	26.5	19.5	2.153	2.266	0.8551
41	27.	20.	2.147	2.26	0.8528
42	27.5	20.5	2.14	2.253	0.8502
43	28.	21.	2.135	2.248	0.8483
44	28.5	21.5	2.128	2.241	0.8456
45	29.	22.	2.121	2.234	0.843
46	29.5	22.5	2.114	2.227	0.8404
47	30.	23.	2.109	2.222	0.8385
48	30.5	23.5	2.1	2.213	0.8351
49	31.	24.	2.096	2.209	0.8336
50	31.5	24.5	2.091	2.204	0.8317
51	32.	25.	2.084	2.197	0.829
52	32.5	25.5	2.078	2.191	0.8268
53	33.	26.	2.073	2.186	0.8249
54	33.5	26.5	2.064	2.177	0.8215
55	34.	27.	2.06	2.173	0.82
56	34.5	27.5	2.055	2.168	0.8181
57	35.	28.	2.049	2.162	0.8158
58	35.5	28.5	2.041	2.154	0.8128
59	36.	29.	2.026	2.139	0.8072
60	36.5	29.5	2.028	2.141	0.8079
61	37.	30.	2.02	2.133	0.8049
62	37.5	30.5	2.017	2.13	0.8038
63	38.	31.	2.011	2.124	0.8015
64	38.5	31.5	2.002	2.115	0.7981
65	39.	32.	2.001	2.114	0.7977
66	39.5	32.5	1.992	2.105	0.7943
67	40.	33.	1.988	2.101	0.7928
68	40.5	33.5	1.98	2.093	0.7898
69	41.	34.	1.974	2.087	0.7875
70	41.5	34.5	1.969	2.082	0.7856
71	42.	35.	1.964	2.077	0.7838
72	42.5	35.5	1.957	2.07	0.7811
73	43.	36.	1.962	2.075	0.783
74	43.5	36.5	1.946	2.059	0.777
75	44.	37.	1.943	2.056	0.7758
76	44.5	37.5	1.936	2.049	0.7732
77	45.	38.	1.93	2.043	0.7709
78	45.5	38.5	1.926	2.039	0.7694
79	46.	39.	1.922	2.035	0.7679
80	46.5	39.5	1.915	2.028	0.7653
81	47.	40.	1.909	2.022	0.763
82	47.5	40.5	1.906	2.019	0.7619
83	48.	41.	1.898	2.011	0.7588
84	48.5	41.5	1.892	2.005	0.7566
85	49.	42.	1.888	2.001	0.7551
86	49.5	42.5	1.876	1.989	0.7505
87	50.	43.	1.874	1.987	0.7498
88	50.5	43.5	1.876	1.989	0.7505
89	51.	44.	1.859	1.972	0.7441
90	51.5	44.5	1.859	1.972	0.7441

91	52.	45.	1.853	1.966	0.7419
92	52.5	45.5	1.851	1.964	0.7411
93	53.	46.	1.844	1.957	0.7385
94	53.5	46.5	1.841	1.954	0.7373
95	54.	47.	1.834	1.947	0.7347
96	54.5	47.5	1.829	1.942	0.7328
97	55.	48.	1.822	1.935	0.7302
98	55.5	48.5	1.819	1.932	0.729
99	56.	49.	1.814	1.927	0.7271
100	56.5	49.5	1.809	1.922	0.7253
101	57.	50.	1.804	1.917	0.7234
102	57.5	50.5	1.803	1.916	0.723
103	58.	51.	1.793	1.906	0.7192
104	58.5	51.5	1.79	1.903	0.7181
105	59.	52.	1.786	1.899	0.7166
106	59.5	52.5	1.782	1.895	0.7151
107	60.	53.	1.779	1.892	0.7139
108	60.5	53.5	1.774	1.887	0.7121
109	61.	54.	1.766	1.879	0.709
110	61.5	54.5	1.763	1.876	0.7079
111	62.	55.	1.757	1.87	0.7056
112	62.5	55.5	1.753	1.866	0.7041
113	63.	56.	1.747	1.86	0.7019
114	63.5	56.5	1.741	1.854	0.6996
115	64.	57.	1.738	1.851	0.6985
116	64.5	57.5	1.737	1.85	0.6981
117	65.	58.	1.727	1.84	0.6943
118	65.5	58.5	1.725	1.838	0.6936
119	66.	59.	1.718	1.831	0.6909
120	66.5	59.5	1.715	1.828	0.6898
121	67.	60.	1.716	1.829	0.6902
122	67.5	60.5	1.707	1.82	0.6868
123	68.	61.	1.705	1.818	0.686
124	68.5	61.5	1.699	1.812	0.6837
125	69.	62.	1.693	1.806	0.6815
126	69.5	62.5	1.693	1.806	0.6815
127	70.	63.	1.685	1.798	0.6785
128	70.5	63.5	1.681	1.794	0.677
129	71.	64.	1.675	1.788	0.6747
130	71.5	64.5	1.672	1.785	0.6736
131	72.	65.	1.665	1.778	0.6709
132	72.5	65.5	1.667	1.78	0.6717
133	73.	66.	1.658	1.771	0.6683
134	73.5	66.5	1.654	1.767	0.6668
135	74.	67.	1.653	1.766	0.6664
136	74.51	67.51	1.646	1.759	0.6637
137	75.	68.	1.644	1.757	0.663
138	75.5	68.5	1.634	1.747	0.6592
139	76.	69.	1.632	1.745	0.6585
140	76.5	69.5	1.633	1.746	0.6588
141	77.	70.	1.627	1.74	0.6566
142	77.5	70.5	1.621	1.734	0.6543
143	78.	71.	1.616	1.729	0.6524
144	78.5	71.5	1.612	1.725	0.6509
145	79.	72.	1.609	1.722	0.6498
146	79.5	72.5	1.606	1.719	0.6487
147	80.	73.	1.601	1.714	0.6468

148	80.5	73.5	1.599	1.712	0.646
149	81.	74.	1.592	1.705	0.6434
150	81.5	74.5	1.588	1.701	0.6419
151	82.	75.	1.581	1.694	0.6392
152	82.5	75.5	1.584	1.697	0.6404
153	83.	76.	1.579	1.692	0.6385
154	83.5	76.5	1.571	1.684	0.6354
155	84.	77.	1.567	1.68	0.6339
156	84.5	77.5	1.563	1.676	0.6324
157	85.	78.	1.56	1.673	0.6313
158	85.5	78.5	1.556	1.669	0.6298
159	86.	79.	1.554	1.667	0.629
160	86.5	79.5	1.548	1.661	0.6268
161	87.	80.	1.528	1.641	0.6192
162	87.5	80.5	1.542	1.655	0.6245
163	88.	81.	1.537	1.65	0.6226
164	88.5	81.5	1.528	1.641	0.6192
165	89.	82.	1.527	1.64	0.6188
166	89.5	82.5	1.521	1.634	0.6166
167	90.	83.	1.52	1.633	0.6162
168	90.5	83.5	1.519	1.632	0.6158
169	91.	84.	1.516	1.629	0.6147
170	91.5	84.5	1.511	1.624	0.6128
171	92.	85.	1.511	1.624	0.6128
172	92.5	85.5	1.505	1.618	0.6105
173	93.	86.	1.503	1.616	0.6098
174	93.5	86.5	1.496	1.609	0.6071
175	94.	87.	1.493	1.606	0.606
176	94.5	87.5	1.489	1.602	0.6045
177	95.	88.	1.489	1.602	0.6045
178	95.5	88.5	1.481	1.594	0.6015
179	96.	89.	1.481	1.594	0.6015
180	96.5	89.5	1.474	1.587	0.5988
181	97.	90.	1.47	1.583	0.5973
182	97.5	90.5	1.473	1.586	0.5985
183	98.	91.	1.467	1.58	0.5962
184	98.5	91.5	1.462	1.575	0.5943
185	99.	92.	1.464	1.577	0.5951
186	99.5	92.5	1.459	1.572	0.5932
187	100.	93.	1.453	1.566	0.5909
188	100.5	93.5	1.454	1.567	0.5913
189	101.	94.	1.451	1.564	0.5902
190	101.5	94.5	1.44	1.553	0.586
191	102.	95.	1.44	1.553	0.586
192	102.5	95.5	1.435	1.548	0.5841
193	103.	96.	1.434	1.547	0.5837
194	103.5	96.5	1.436	1.549	0.5845
195	104.	97.	1.427	1.54	0.5811
196	104.5	97.5	1.42	1.533	0.5785
197	105.	98.	1.424	1.537	0.58
198	105.5	98.5	1.421	1.534	0.5788
199	106.	99.	1.415	1.528	0.5766
200	106.5	99.5	1.413	1.526	0.5758
201	107.	100.	1.411	1.524	0.5751
202	107.5	100.5	1.405	1.518	0.5728
203	108.	101.	1.401	1.514	0.5713
204	108.5	101.5	1.397	1.51	0.5698

205	109.	102.	1.398	1.511	0.5702
206	109.5	102.5	1.394	1.507	0.5686
207	110.	103.	1.389	1.502	0.5668
208	110.5	103.5	1.389	1.502	0.5668
209	111.	104.	1.384	1.497	0.5649
210	111.5	104.5	1.384	1.497	0.5649
211	112.	105.	1.377	1.49	0.5622
212	112.5	105.5	1.374	1.487	0.5611
213	113.	106.	1.369	1.482	0.5592
214	113.5	106.5	1.368	1.481	0.5588
215	114.	107.	1.364	1.477	0.5573
216	114.5	107.5	1.362	1.475	0.5566
217	115.	108.	1.357	1.47	0.5547
218	115.5	108.5	1.357	1.47	0.5547
219	116.	109.	1.357	1.47	0.5547
220	116.5	109.5	1.347	1.46	0.5509
221	117.	110.	1.347	1.46	0.5509
222	117.5	110.5	1.345	1.458	0.5502
223	118.	111.	1.341	1.454	0.5486
224	118.5	111.5	1.34	1.453	0.5483
225	119.	112.	1.337	1.45	0.5471
226	119.5	112.5	1.333	1.446	0.5456
227	120.	113.	1.331	1.444	0.5449
228	120.5	113.5	1.328	1.441	0.5437
229	121.	114.	1.327	1.44	0.5434
230	121.5	114.5	1.325	1.438	0.5426
231	122.	115.	1.319	1.432	0.5403
232	122.5	115.5	1.317	1.43	0.5396
233	123.	116.	1.315	1.428	0.5388
234	123.5	116.5	1.312	1.425	0.5377
235	124.	117.	1.315	1.428	0.5388
236	124.5	117.5	1.304	1.417	0.5347
237	125.	118.	1.301	1.414	0.5335
238	125.5	118.5	1.302	1.415	0.5339
239	126.	119.	1.292	1.405	0.5302
240	126.5	119.5	1.294	1.407	0.5309
241	127.	120.	1.282	1.395	0.5264
242	127.5	120.5	1.288	1.401	0.5286
243	128.	121.	1.287	1.4	0.5283
244	128.5	121.5	1.286	1.399	0.5279
245	129.	122.	1.281	1.394	0.526
246	129.5	122.5	1.278	1.391	0.5249
247	130.	123.	1.276	1.389	0.5241
248	130.5	123.5	1.276	1.389	0.5241
249	131.	124.	1.274	1.387	0.5234
250	131.5	124.5	1.267	1.38	0.5207
251	132.	125.	1.266	1.379	0.5203
252	132.5	125.5	1.265	1.378	0.52
253	133.	126.	1.259	1.372	0.5177
254	133.5	126.5	1.259	1.372	0.5177
255	134.	127.	1.257	1.37	0.5169
256	134.5	127.5	1.255	1.368	0.5162
257	135.	128.	1.249	1.362	0.5139
258	135.5	128.5	1.248	1.361	0.5135
259	136.	129.	1.243	1.356	0.5117
260	136.5	129.5	1.243	1.356	0.5117
261	137.	130.	1.241	1.354	0.5109

262	137.5	130.5	1.238	1.351	0.5098
263	138.	131.	1.24	1.353	0.5105
264	138.5	131.5	1.234	1.347	0.5083
265	139.	132.	1.229	1.342	0.5064
266	139.5	132.5	1.228	1.341	0.506
267	140.	133.	1.227	1.34	0.5056
268	140.5	133.5	1.217	1.33	0.5018
269	141.	134.	1.222	1.335	0.5037
270	141.5	134.5	1.22	1.333	0.503
271	142.	135.	1.217	1.33	0.5018
272	142.5	135.5	1.218	1.331	0.5022
273	143.	136.	1.213	1.326	0.5003
274	143.5	136.5	1.209	1.322	0.4988
275	144.	137.	1.211	1.324	0.4996
276	144.5	137.5	1.204	1.317	0.4969
277	145.	138.	1.2	1.313	0.4954
278	145.5	138.5	1.2	1.313	0.4954
279	146.	139.	1.2	1.313	0.4954
280	146.5	139.5	1.197	1.31	0.4943
281	147.	140.	1.195	1.308	0.4935
282	147.5	140.5	1.194	1.307	0.4932
283	148.	141.	1.185	1.298	0.4898
284	148.5	141.5	1.19	1.303	0.4917
285	149.	142.	1.185	1.298	0.4898
286	149.5	142.5	1.178	1.291	0.4871
287	150.	143.	1.169	1.282	0.4837
288	150.5	143.5	1.179	1.292	0.4875
289	151.	144.	1.175	1.288	0.486
290	151.5	144.5	1.173	1.286	0.4852
291	152.	145.	1.172	1.285	0.4849
292	152.5	145.5	1.171	1.284	0.4845
293	153.	146.	1.169	1.282	0.4837
294	153.5	146.5	1.163	1.276	0.4815
295	154.	147.	1.166	1.279	0.4826
296	154.5	147.5	1.155	1.268	0.4785
297	155.	148.	1.159	1.272	0.48
298	155.5	148.5	1.15	1.263	0.4766
299	156.	149.	1.155	1.268	0.4785
300	156.5	149.5	1.153	1.266	0.4777
301	157.	150.	1.151	1.264	0.4769
302	157.5	150.5	1.151	1.264	0.4769
303	158.	151.	1.144	1.257	0.4743
304	158.5	151.5	1.144	1.257	0.4743
305	159.	152.	1.142	1.255	0.4735
306	159.5	152.5	1.142	1.255	0.4735
307	160.	153.	1.139	1.252	0.4724
308	160.5	153.5	1.136	1.249	0.4713
309	161.	154.	1.137	1.25	0.4717
310	161.5	154.5	1.135	1.248	0.4709
311	162.	155.	1.129	1.242	0.4686
312	162.5	155.5	1.125	1.238	0.4671
313	163.	156.	1.127	1.24	0.4679
314	163.5	156.5	1.126	1.239	0.4675
315	164.	157.	1.123	1.236	0.4664
316	164.5	157.5	1.111	1.224	0.4618
317	165.	158.	1.119	1.232	0.4649
318	165.5	158.5	1.116	1.229	0.4637

319	166.	159.	1.112	1.225	0.4622
320	166.5	159.5	1.11	1.223	0.4615
321	167.	160.	1.112	1.225	0.4622
322	167.5	160.5	1.105	1.218	0.4596
323	168.	161.	1.108	1.221	0.4607
324	168.5	161.5	1.105	1.218	0.4596
325	169.	162.	1.105	1.218	0.4596
326	169.5	162.5	1.098	1.211	0.4569
327	170.	163.	1.097	1.21	0.4566
328	170.5	163.5	1.098	1.211	0.4569
329	171.	164.	1.096	1.209	0.4562
330	171.5	164.5	1.095	1.208	0.4558
331	172.	165.	1.092	1.205	0.4547
332	172.5	165.5	1.09	1.203	0.4539
333	173.	166.	1.088	1.201	0.4532
334	173.5	166.5	1.084	1.197	0.4517
335	174.	167.	1.085	1.198	0.452
336	174.5	167.5	1.086	1.199	0.4524
337	175.	168.	1.083	1.196	0.4513
338	175.5	168.5	1.08	1.193	0.4501
339	176.	169.	1.081	1.194	0.4505
340	176.5	169.5	1.076	1.189	0.4486
341	177.	170.	1.075	1.188	0.4483
342	177.5	170.5	1.073	1.186	0.4475
343	178.	171.	1.071	1.184	0.4468
344	178.5	171.5	1.072	1.185	0.4471
345	179.	172.	1.066	1.179	0.4449
346	179.5	172.5	1.064	1.177	0.4441
347	180.	173.	1.061	1.174	0.443
348	180.5	173.5	1.062	1.175	0.4434
349	181.	174.	1.06	1.173	0.4426
350	181.5	174.5	1.061	1.174	0.443
351	182.	175.	1.061	1.174	0.443
352	182.5	175.5	1.058	1.171	0.4418
353	183.	176.	1.051	1.164	0.4392
354	183.5	176.5	1.051	1.164	0.4392
355	184.	177.	1.052	1.165	0.4396
356	184.5	177.5	1.053	1.166	0.44
357	185.	178.	1.051	1.164	0.4392
358	185.5	178.5	1.051	1.164	0.4392
359	186.	179.	1.048	1.161	0.4381
360	186.5	179.5	1.045	1.158	0.4369
361	187.	180.	1.043	1.156	0.4362
362	187.5	180.5	1.04	1.153	0.4351
363	188.	181.	1.037	1.15	0.4339
364	188.5	181.5	1.035	1.148	0.4332
365	189.	182.	1.032	1.145	0.432
366	189.5	182.5	1.033	1.146	0.4324
367	190.	183.	1.036	1.149	0.4335
368	190.5	183.5	1.026	1.139	0.4298
369	191.	184.	1.028	1.141	0.4305
370	191.5	184.5	1.024	1.137	0.429
371	192.	185.	1.026	1.139	0.4298
372	192.5	185.5	1.027	1.14	0.4301
373	193.	186.	1.024	1.137	0.429
374	193.5	186.5	1.022	1.135	0.4283
375	194.	187.	1.025	1.138	0.4294

376	194.5	187.5	1.02	1.133	0.4275
377	195.	188.	1.013	1.126	0.4249
378	195.5	188.5	1.016	1.129	0.426
379	196.	189.	1.014	1.127	0.4252
380	196.5	189.5	1.012	1.125	0.4245
381	197.	190.	1.012	1.125	0.4245
382	197.5	190.5	1.014	1.127	0.4252
383	198.	191.	1.005	1.118	0.4218
384	198.5	191.5	1.005	1.118	0.4218
385	199.	192.	1.005	1.118	0.4218
386	199.5	192.5	1.005	1.118	0.4218
387	200.	193.	1.001	1.114	0.4203
388	200.5	193.5	1.	1.113	0.42
389	201.	194.	1.001	1.114	0.4203
390	201.5	194.5	1.	1.113	0.42
391	202.	195.	0.9958	1.109	0.4184
392	202.5	195.5	0.994	1.107	0.4177
393	203.	196.	0.9937	1.107	0.4176
394	203.5	196.5	0.9944	1.107	0.4178
395	204.	197.	0.9925	1.105	0.4171
396	204.5	197.5	0.9944	1.107	0.4178
397	205.	198.	0.9898	1.103	0.4161
398	205.5	198.5	0.9907	1.104	0.4164
399	206.	199.	0.9853	1.098	0.4144
400	206.5	199.5	0.9843	1.097	0.414
401	207.	200.	0.984	1.097	0.4139
402	207.5	200.5	0.9823	1.095	0.4133
403	208.	201.	0.981	1.094	0.4128
404	208.5	201.5	0.9783	1.091	0.4118
405	209.	202.	0.9785	1.091	0.4118
406	209.5	202.5	0.9761	1.089	0.4109
407	210.	203.	0.9775	1.09	0.4115
408	210.5	203.5	0.975	1.088	0.4105
409	211.	204.	0.9756	1.088	0.4107
410	211.5	204.5	0.9753	1.088	0.4106
411	212.	205.	0.972	1.085	0.4094
412	212.5	205.5	0.9732	1.086	0.4098
413	213.	206.	0.9687	1.081	0.4081
414	213.5	206.5	0.9678	1.081	0.4078
415	214.	207.	0.9681	1.081	0.4079
416	214.5	207.5	0.9659	1.079	0.4071
417	215.	208.	0.9604	1.073	0.405
418	215.5	208.5	0.9639	1.077	0.4063
419	216.	209.	0.9602	1.073	0.4049
420	216.5	209.5	0.9602	1.073	0.4049
421	217.	210.	0.9604	1.073	0.405
422	217.5	210.5	0.9591	1.072	0.4045
423	218.	211.	0.9569	1.07	0.4037
424	218.5	211.5	0.9492	1.062	0.4008
425	219.	212.	0.9512	1.064	0.4015
426	219.5	212.5	0.953	1.066	0.4022
427	220.	213.	0.9494	1.062	0.4009
428	220.5	213.5	0.953	1.066	0.4022
429	221.	214.	0.9487	1.061	0.4006
430	221.5	214.5	0.9504	1.063	0.4012
431	222.	215.	0.9462	1.059	0.3997
432	222.5	215.5	0.9444	1.057	0.399

433	223.	216.	0.9477	1.061	0.4002
434	223.5	216.5	0.9433	1.056	0.3986
435	224.	217.	0.9442	1.057	0.3989
436	224.5	217.5	0.9407	1.053	0.3976
437	225.	218.	0.939	1.052	0.3969
438	225.5	218.5	0.9435	1.056	0.3986
439	226.	219.	0.9417	1.055	0.398
440	226.5	219.5	0.9393	1.052	0.397
441	227.	220.	0.9377	1.051	0.3964
442	227.5	220.5	0.9352	1.048	0.3955
443	228.	221.	0.9345	1.047	0.3952
444	228.5	221.5	0.932	1.045	0.3943
445	229.	222.	0.9299	1.043	0.3935
446	229.5	222.5	0.9341	1.047	0.3951
447	230.	223.	0.9326	1.045	0.3945
448	230.5	223.5	0.9293	1.042	0.3933
449	231.	224.	0.926	1.039	0.392
450	231.5	224.5	0.9204	1.033	0.3899
451	232.	225.	0.9255	1.038	0.3918
452	232.5	225.5	0.9224	1.035	0.3907
453	233.	226.	0.9236	1.036	0.3911
454	233.5	226.5	0.929	1.042	0.3932
455	234.	227.	0.9209	1.034	0.3901
456	234.5	227.5	0.9245	1.037	0.3915
457	235.	228.	0.9217	1.035	0.3904
458	235.5	228.5	0.9206	1.033	0.39
459	236.	229.	0.9131	1.026	0.3872
460	236.5	229.5	0.9157	1.029	0.3881
461	237.	230.	0.9167	1.029	0.3885
462	237.5	230.5	0.9131	1.026	0.3872
463	238.	231.	0.9121	1.025	0.3868
464	238.5	231.5	0.9115	1.024	0.3866
465	239.	232.	0.9133	1.026	0.3872
466	239.5	232.5	0.9098	1.023	0.3859
467	240.	233.	0.9082	1.021	0.3853
468	240.5	233.5	0.9087	1.021	0.3855
469	241.	234.	0.9064	1.019	0.3846
470	241.5	234.5	0.9079	1.021	0.3852
471	242.	235.	0.9073	1.02	0.385
472	242.5	235.5	0.9067	1.019	0.3847
473	243.	236.	0.9037	1.017	0.3836
474	243.5	236.5	0.9048	1.018	0.384
475	244.	237.	0.9039	1.017	0.3837
476	244.5	237.5	0.8978	1.011	0.3814
477	245.	238.	0.9025	1.015	0.3832
478	245.5	238.5	0.903	1.016	0.3833
479	246.	239.	0.8987	1.012	0.3817
480	246.5	239.5	0.8967	1.01	0.381
481	247.	240.	0.8987	1.012	0.3817
482	247.5	240.5	0.8928	1.006	0.3795
483	248.	241.	0.8936	1.006	0.3798
484	248.5	241.5	0.8988	1.012	0.3818
485	249.	242.	0.8933	1.006	0.3797
486	249.5	242.5	0.8913	1.004	0.3789
487	250.	243.	0.8947	1.007	0.3802
488	250.5	243.5	0.8967	1.01	0.381
489	251.	244.	0.8883	1.001	0.3778

490	251.5	244.5	0.8909	1.004	0.3788
491	252.	245.	0.8907	1.004	0.3787
492	252.5	245.5	0.8862	0.999	0.377
493	253.	246.	0.8862	0.999	0.377
494	253.5	246.5	0.8861	0.9989	0.377
495	254.	247.	0.888	1.001	0.3777
496	254.5	247.5	0.8852	0.998	0.3766
497	255.	248.	0.8862	0.999	0.377
498	255.5	248.5	0.8817	0.9945	0.3753
499	256.	249.	0.8828	0.9956	0.3757
500	256.5	249.5	0.8789	0.9917	0.3743
501	257.	250.	0.8868	0.9996	0.3772
502	257.5	250.5	0.8788	0.9916	0.3742
503	258.	251.	0.8767	0.9895	0.3734
504	258.5	251.5	0.8758	0.9886	0.3731
505	259.	252.	0.8743	0.9871	0.3725
506	259.5	252.5	0.877	0.9898	0.3735
507	260.	253.	0.8737	0.9865	0.3723
508	260.5	253.5	0.8743	0.9871	0.3725
509	261.	254.	0.8703	0.9831	0.371
510	261.5	254.5	0.8708	0.9836	0.3712
511	262.	255.	0.8713	0.9841	0.3714
512	262.5	255.5	0.8701	0.9829	0.3709
513	263.	256.	0.8725	0.9853	0.3718
514	263.5	256.5	0.8717	0.9845	0.3715
515	264.	257.	0.8722	0.985	0.3717
516	264.5	257.5	0.8698	0.9826	0.3708
517	265.	258.	0.8683	0.9811	0.3703
518	265.5	258.5	0.8676	0.9804	0.37
519	266.	259.	0.8653	0.9781	0.3691
520	266.5	259.5	0.8641	0.9769	0.3687
521	267.	260.	0.8594	0.9722	0.3669
522	267.5	260.5	0.8623	0.9751	0.368
523	268.	261.	0.8626	0.9754	0.3681
524	268.5	261.5	0.8605	0.9733	0.3673
525	269.	262.	0.861	0.9738	0.3675
526	269.5	262.5	0.8559	0.9687	0.3656
527	270.	263.	0.861	0.9738	0.3675
528	270.5	263.5	0.8598	0.9726	0.367
529	271.	264.	0.8604	0.9732	0.3673
530	271.5	264.5	0.8552	0.968	0.3653
531	272.	265.	0.8549	0.9677	0.3652
532	272.5	265.5	0.8561	0.9689	0.3657
533	273.	266.	0.8535	0.9663	0.3647
534	273.5	266.5	0.8508	0.9636	0.3637
535	274.	267.	0.8519	0.9647	0.3641
536	274.5	267.5	0.8547	0.9675	0.3651
537	275.	268.	0.8466	0.9594	0.3621
538	275.5	268.5	0.8517	0.9645	0.364
539	276.	269.	0.8552	0.968	0.3653
540	276.5	269.5	0.8468	0.9596	0.3621
541	277.	270.	0.848	0.9608	0.3626
542	277.5	270.5	0.8482	0.961	0.3627
543	278.	271.	0.845	0.9578	0.3615
544	278.5	271.5	0.8471	0.9599	0.3623
545	279.	272.	0.8459	0.9587	0.3618
546	279.5	272.5	0.8424	0.9552	0.3605

547	280.	273.	0.8452	0.958	0.3615
548	280.5	273.5	0.8413	0.9541	0.3601
549	281.	274.	0.8443	0.9571	0.3612
550	281.5	274.5	0.8399	0.9527	0.3595
551	282.	275.	0.8396	0.9524	0.3594
552	282.5	275.5	0.838	0.9508	0.3588
553	283.	276.	0.8417	0.9545	0.3602
554	283.5	276.5	0.8405	0.9533	0.3598
555	284.	277.	0.8402	0.953	0.3596
556	284.5	277.5	0.8411	0.9539	0.36
557	285.	278.	0.8368	0.9496	0.3584
558	285.5	278.5	0.8377	0.9505	0.3587
559	286.	279.	0.8324	0.9452	0.3567
560	286.5	279.5	0.8336	0.9464	0.3572
561	287.	280.	0.8399	0.9527	0.3595
562	287.5	280.5	0.8399	0.9527	0.3595
563	288.	281.	0.8356	0.9484	0.3579
564	288.5	281.5	0.8329	0.9457	0.3569
565	289.	282.	0.8308	0.9436	0.3561
566	289.5	282.5	0.8308	0.9436	0.3561
567	290.	283.	0.8295	0.9423	0.3556
568	290.5	283.5	0.8292	0.942	0.3555
569	291.	284.	0.829	0.9418	0.3554
570	291.5	284.5	0.8271	0.9399	0.3547
571	292.	285.	0.8311	0.9439	0.3562
572	292.5	285.5	0.8295	0.9423	0.3556
573	293.	286.	0.8256	0.9384	0.3541
574	293.5	286.5	0.8245	0.9373	0.3537
575	294.	287.	0.8218	0.9346	0.3527
576	294.5	287.5	0.8247	0.9375	0.3538
577	295.	288.	0.8218	0.9346	0.3527
578	295.5	288.5	0.8244	0.9372	0.3537
579	296.	289.	0.8196	0.9324	0.3519
580	296.5	289.5	0.8204	0.9332	0.3522
581	297.	290.	0.8205	0.9333	0.3522
582	297.5	290.5	0.8185	0.9313	0.3515
583	298.	291.	0.8187	0.9315	0.3515
584	298.5	291.5	0.8218	0.9346	0.3527
585	299.	292.	0.8157	0.9285	0.3504
586	299.5	292.5	0.8168	0.9296	0.3508
587	300.	293.	0.816	0.9288	0.3505
588	300.5	293.5	0.8149	0.9277	0.3501
589	301.	294.	0.8148	0.9276	0.3501
590	301.5	294.5	0.8177	0.9305	0.3512
591	302.	295.	0.8133	0.9261	0.3495
592	302.5	295.5	0.8157	0.9285	0.3504
593	303.	296.	0.8133	0.9261	0.3495
594	303.5	296.5	0.809	0.9218	0.3479
595	304.	297.	0.8138	0.9266	0.3497
596	304.5	297.5	0.8103	0.9231	0.3484
597	305.	298.	0.8099	0.9227	0.3482
598	305.5	298.5	0.8099	0.9227	0.3482
599	306.	299.	0.8084	0.9212	0.3476
600	306.5	299.5	0.8007	0.9135	0.3447
601	307.	300.	0.8088	0.9216	0.3478
602	307.5	300.5	0.8088	0.9216	0.3478
603	308.	301.	0.8061	0.9189	0.3468

604	308.5	301.5	0.8072	0.92	0.3472
605	309.	302.	0.8053	0.9181	0.3465
606	309.5	302.5	0.8057	0.9185	0.3466
607	310.	303.	0.8021	0.9149	0.3453
608	310.5	303.5	0.8036	0.9164	0.3458
609	311.	304.	0.8078	0.9206	0.3474
610	311.5	304.5	0.8026	0.9154	0.3455
611	312.	305.	0.8023	0.9151	0.3453
612	312.5	305.5	0.8027	0.9155	0.3455
613	313.	306.	0.7985	0.9113	0.3439
614	313.5	306.5	0.8029	0.9157	0.3456
615	314.	307.	0.8038	0.9166	0.3459
616	314.5	307.5	0.8049	0.9177	0.3463
617	315.	308.	0.7988	0.9116	0.344
618	315.5	308.5	0.8016	0.9144	0.3451
619	316.	309.	0.7987	0.9115	0.344
620	316.5	309.5	0.7982	0.911	0.3438
621	317.	310.	0.7976	0.9104	0.3436
622	317.5	310.5	0.788	0.9008	0.34
623	318.	311.	0.795	0.9078	0.3426
624	318.5	311.5	0.7955	0.9083	0.3428
625	319.	312.	0.797	0.9098	0.3433
626	319.5	312.5	0.7909	0.9037	0.341
627	320.	313.	0.7936	0.9064	0.3421
628	320.5	313.5	0.789	0.9018	0.3403
629	321.	314.	0.7891	0.9019	0.3404
630	321.5	314.5	0.7907	0.9035	0.341
631	322.	315.	0.7916	0.9044	0.3413
632	322.5	315.5	0.7921	0.9049	0.3415
633	323.	316.	0.7932	0.906	0.3419
634	323.5	316.5	0.7873	0.9001	0.3397
635	324.	317.	0.7904	0.9032	0.3409
636	324.5	317.5	0.7876	0.9004	0.3398
637	325.	318.	0.7873	0.9001	0.3397
638	325.5	318.5	0.7891	0.9019	0.3404
639	326.	319.	0.7848	0.8976	0.3387
640	326.5	319.5	0.7879	0.9007	0.3399
641	327.	320.	0.7861	0.8989	0.3392
642	327.5	320.5	0.7825	0.8953	0.3379
643	328.	321.	0.783	0.8958	0.3381
644	328.5	321.5	0.7849	0.8977	0.3388
645	329.	322.	0.7845	0.8973	0.3386
646	329.5	322.5	0.782	0.8948	0.3377
647	330.	323.	0.7839	0.8967	0.3384
648	330.5	323.5	0.7839	0.8967	0.3384
649	331.	324.	0.7843	0.8971	0.3386
650	331.5	324.5	0.7784	0.8912	0.3363
651	332.	325.	0.7788	0.8916	0.3365
652	332.5	325.5	0.7778	0.8906	0.3361
653	333.	326.	0.7825	0.8953	0.3379
654	333.5	326.5	0.777	0.8898	0.3358
655	334.	327.	0.7803	0.8931	0.337
656	334.5	327.5	0.7808	0.8936	0.3372
657	335.	328.	0.7794	0.8922	0.3367
658	335.5	328.5	0.7742	0.887	0.3347
659	336.	329.	0.7794	0.8922	0.3367
660	336.5	329.5	0.7721	0.8849	0.3339

661	337.	330.	0.7706	0.8834	0.3334
662	337.5	330.5	0.7715	0.8843	0.3337
663	338.	331.	0.7751	0.8879	0.3351
664	338.5	331.5	0.7648	0.8776	0.3312
665	339.	332.	0.7714	0.8842	0.3337
666	339.5	332.5	0.7707	0.8835	0.3334
667	340.	333.	0.7752	0.888	0.3351
668	340.5	333.5	0.7702	0.883	0.3332
669	341.	334.	0.7725	0.8853	0.3341
670	341.5	334.5	0.7667	0.8795	0.3319
671	342.	335.	0.7694	0.8822	0.3329
672	342.5	335.5	0.767	0.8798	0.332
673	343.	336.	0.7687	0.8815	0.3327
674	343.5	336.5	0.7661	0.8789	0.3317
675	344.	337.	0.7664	0.8792	0.3318
676	344.5	337.5	0.7696	0.8824	0.333
677	345.	338.	0.7637	0.8765	0.3308
678	345.5	338.5	0.7653	0.8781	0.3314
679	346.	339.	0.7663	0.8791	0.3318
680	346.5	339.5	0.7655	0.8783	0.3315
681	347.	340.	0.7638	0.8766	0.3308
682	347.5	340.5	0.7638	0.8766	0.3308
683	348.	341.	0.7636	0.8764	0.3307
684	348.5	341.5	0.7643	0.8771	0.331
685	349.	342.	0.7591	0.8719	0.329
686	349.5	342.5	0.7615	0.8743	0.3299
687	350.	343.	0.7622	0.875	0.3302
688	350.5	343.5	0.7586	0.8714	0.3289
689	351.	344.	0.7621	0.8749	0.3302
690	351.5	344.5	0.7594	0.8722	0.3292
691	352.	345.	0.7576	0.8704	0.3285
692	352.5	345.5	0.7588	0.8716	0.3289
693	353.	346.	0.7582	0.871	0.3287
694	353.5	346.5	0.7562	0.869	0.3279
695	354.	347.	0.7555	0.8683	0.3277
696	354.5	347.5	0.757	0.8698	0.3283
697	355.	348.	0.7552	0.868	0.3276
698	355.5	348.5	0.7543	0.8671	0.3272
699	356.	349.	0.7567	0.8695	0.3281
700	356.5	349.5	0.7588	0.8716	0.3289
701	357.	350.	0.756	0.8688	0.3279
702	357.5	350.5	0.7532	0.866	0.3268
703	358.	351.	0.7525	0.8653	0.3266
704	358.5	351.5	0.752	0.8648	0.3264
705	359.	352.	0.7493	0.8621	0.3253
706	359.5	352.5	0.7541	0.8669	0.3272
707	360.	353.	0.7513	0.8641	0.3261
708	360.5	353.5	0.7508	0.8636	0.3259
709	361.	354.	0.7469	0.8597	0.3244
710	361.5	354.5	0.7489	0.8617	0.3252
711	362.	355.	0.7517	0.8645	0.3263
712	362.5	355.5	0.7483	0.8611	0.325
713	363.	356.	0.7483	0.8611	0.325
714	363.5	356.5	0.7488	0.8616	0.3252
715	364.	357.	0.748	0.8608	0.3249
716	364.5	357.5	0.7465	0.8593	0.3243
717	365.	358.	0.7464	0.8592	0.3243

718	365.5	358.5	0.7471	0.8599	0.3245
719	366.	359.	0.7471	0.8599	0.3245
720	366.5	359.5	0.7516	0.8644	0.3262
721	367.	360.	0.7449	0.8577	0.3237
722	367.5	360.5	0.7437	0.8565	0.3232
723	368.	361.	0.7465	0.8593	0.3243
724	368.5	361.5	0.7444	0.8572	0.3235
725	369.	362.	0.7476	0.8604	0.3247
726	369.5	362.5	0.744	0.8568	0.3233
727	370.	363.	0.7443	0.8571	0.3235
728	370.5	363.5	0.7419	0.8547	0.3226
729	371.	364.	0.7392	0.852	0.3215
730	371.5	364.5	0.7425	0.8553	0.3228
731	372.	365.	0.7469	0.8597	0.3244
732	372.5	365.5	0.7373	0.8501	0.3208
733	373.	366.	0.7436	0.8564	0.3232
734	373.5	366.5	0.7395	0.8523	0.3216
735	374.	367.	0.7425	0.8553	0.3228
736	374.5	367.5	0.7398	0.8526	0.3218
737	375.	368.	0.7381	0.8509	0.3211
738	375.5	368.5	0.7374	0.8502	0.3209
739	376.	369.	0.7369	0.8497	0.3207
740	376.5	369.5	0.7347	0.8475	0.3198
741	377.	370.	0.7369	0.8497	0.3207
742	377.5	370.5	0.7379	0.8507	0.321
743	378.	371.	0.7353	0.8481	0.3201
744	378.5	371.5	0.7406	0.8534	0.3221
745	379.	372.	0.735	0.8478	0.3199
746	379.5	372.5	0.7326	0.8454	0.319
747	380.	373.	0.7329	0.8457	0.3192
748	380.5	373.5	0.7369	0.8497	0.3207
749	381.	374.	0.7352	0.848	0.32
750	381.5	374.5	0.7301	0.8429	0.3181
751	382.	375.	0.7309	0.8437	0.3184
752	382.5	375.5	0.7334	0.8462	0.3193
753	383.	376.	0.7298	0.8426	0.318
754	383.5	376.5	0.7337	0.8465	0.3195
755	384.	377.	0.7319	0.8447	0.3188
756	384.5	377.5	0.7289	0.8417	0.3176
757	385.	378.	0.7295	0.8423	0.3179
758	385.5	378.5	0.7299	0.8427	0.318
759	386.	379.	0.7322	0.845	0.3189
760	386.5	379.5	0.728	0.8408	0.3173
761	387.	380.	0.7269	0.8397	0.3169
762	387.5	380.5	0.7291	0.8419	0.3177
763	388.	381.	0.7265	0.8393	0.3167
764	388.5	381.5	0.7259	0.8387	0.3165
765	389.	382.	0.7273	0.8401	0.317
766	389.5	382.5	0.7299	0.8427	0.318
767	390.	383.	0.728	0.8408	0.3173
768	390.5	383.5	0.7225	0.8353	0.3152
769	391.	384.	0.7252	0.838	0.3163
770	391.5	384.5	0.7276	0.8404	0.3172
771	392.	385.	0.7258	0.8386	0.3165
772	392.5	385.5	0.7241	0.8369	0.3158
773	393.	386.	0.7225	0.8353	0.3152
774	393.5	386.5	0.7183	0.8311	0.3136

775	394.	387.	0.7256	0.8384	0.3164
776	394.5	387.5	0.7214	0.8342	0.3148
777	395.	388.	0.7231	0.8359	0.3155
778	395.5	388.5	0.7248	0.8376	0.3161
779	396.	389.	0.724	0.8368	0.3158
780	396.5	389.5	0.7224	0.8352	0.3152
781	397.	390.	0.7211	0.8339	0.3147
782	397.5	390.5	0.7197	0.8325	0.3142
783	398.	391.	0.7194	0.8322	0.3141
784	398.5	391.5	0.7208	0.8336	0.3146
785	399.	392.	0.7235	0.8363	0.3156
786	399.5	392.5	0.7235	0.8363	0.3156
787	400.	393.	0.7193	0.8321	0.314
788	400.5	393.5	0.7169	0.8297	0.3131
789	401.	394.	0.7244	0.8372	0.3159
790	401.5	394.5	0.7165	0.8293	0.313
791	402.	395.	0.7148	0.8276	0.3123
792	402.5	395.5	0.719	0.8318	0.3139
793	403.	396.	0.7185	0.8313	0.3137
794	403.5	396.5	0.7199	0.8327	0.3143
795	404.	397.	0.7172	0.83	0.3132
796	404.5	397.5	0.7107	0.8235	0.3108
797	405.	398.	0.7141	0.8269	0.3121
798	405.5	398.5	0.7154	0.8282	0.3126
799	406.	399.	0.7144	0.8272	0.3122
800	406.5	399.5	0.7137	0.8265	0.3119
801	407.	400.	0.7135	0.8263	0.3118
802	407.5	400.5	0.7154	0.8282	0.3126
803	408.	401.	0.715	0.8278	0.3124
804	408.5	401.5	0.7115	0.8243	0.3111
805	409.	402.	0.7133	0.8261	0.3118
806	409.5	402.5	0.7135	0.8263	0.3118
807	410.	403.	0.7109	0.8237	0.3109
808	410.5	403.5	0.7124	0.8252	0.3114
809	411.	404.	0.7096	0.8224	0.3104
810	411.5	404.5	0.714	0.8268	0.312
811	412.	405.	0.7125	0.8253	0.3115
812	412.5	405.5	0.7089	0.8217	0.3101
813	413.	406.	0.7093	0.8221	0.3102
814	413.5	406.5	0.7065	0.8193	0.3092
815	414.	407.	0.7093	0.8221	0.3102
816	414.5	407.5	0.708	0.8208	0.3098
817	415.	408.	0.7083	0.8211	0.3099
818	415.5	408.5	0.7111	0.8239	0.3109
819	416.	409.	0.7065	0.8193	0.3092
820	416.5	409.5	0.7045	0.8173	0.3084
821	417.	410.	0.7054	0.8182	0.3088
822	417.5	410.5	0.7041	0.8169	0.3083
823	418.	411.	0.7052	0.818	0.3087
824	418.5	411.5	0.7072	0.82	0.3095
825	419.	412.	0.7062	0.819	0.3091
826	419.5	412.5	0.7079	0.8207	0.3097
827	420.	413.	0.7047	0.8175	0.3085
828	420.5	413.5	0.707	0.8198	0.3094
829	421.	414.	0.7067	0.8195	0.3093
830	421.5	414.5	0.7053	0.8181	0.3087
831	422.	415.	0.6999	0.8127	0.3067

832	422.5	415.5	0.7019	0.8147	0.3075
833	423.	416.	0.7027	0.8155	0.3078
834	423.5	416.5	0.703	0.8158	0.3079
835	424.	417.	0.7001	0.8129	0.3068
836	424.5	417.5	0.7047	0.8175	0.3085
837	425.	418.	0.7065	0.8193	0.3092
838	425.5	418.5	0.7005	0.8133	0.3069
839	426.	419.	0.7036	0.8164	0.3081
840	426.5	419.5	0.6953	0.8081	0.305
841	427.	420.	0.7035	0.8163	0.3081
842	427.5	420.5	0.7033	0.8161	0.308
843	428.	421.	0.7035	0.8163	0.3081
844	428.5	421.5	0.7026	0.8154	0.3077
845	429.	422.	0.6979	0.8107	0.3059
846	429.5	422.5	0.6981	0.8109	0.306
847	430.	423.	0.6988	0.8116	0.3063
848	430.5	423.5	0.6981	0.8109	0.306
849	431.	424.	0.6951	0.8079	0.3049
850	431.5	424.5	0.6941	0.8069	0.3045
851	432.	425.	0.6945	0.8073	0.3047
852	432.5	425.5	0.6968	0.8096	0.3055
853	433.	426.	0.6942	0.807	0.3046
854	433.5	426.5	0.6948	0.8076	0.3048
855	434.	427.	0.6957	0.8085	0.3051
856	434.5	427.5	0.6957	0.8085	0.3051
857	435.	428.	0.6948	0.8076	0.3048
858	435.5	428.5	0.692	0.8048	0.3037
859	436.	429.	0.6974	0.8102	0.3058
860	436.5	429.5	0.6967	0.8095	0.3055
861	437.	430.	0.696	0.8088	0.3052
862	437.5	430.5	0.6938	0.8066	0.3044
863	438.	431.	0.6912	0.804	0.3034
864	438.5	431.5	0.6899	0.8027	0.3029
865	439.	432.	0.6917	0.8045	0.3036
866	439.5	432.5	0.6929	0.8057	0.3041
867	440.	433.	0.6932	0.806	0.3042
868	440.5	433.5	0.6916	0.8044	0.3036
869	441.	434.	0.6948	0.8076	0.3048
870	441.5	434.5	0.6891	0.8019	0.3026
871	442.	435.	0.6902	0.803	0.303
872	442.5	435.5	0.6921	0.8049	0.3038
873	443.	436.	0.6897	0.8025	0.3029
874	443.5	436.5	0.6872	0.8	0.3019
875	444.	437.	0.6902	0.803	0.303
876	444.5	437.5	0.6871	0.7999	0.3019
877	445.	438.	0.6894	0.8022	0.3027
878	445.5	438.5	0.6906	0.8034	0.3032
879	446.	439.	0.6865	0.7993	0.3016
880	446.5	439.5	0.6851	0.7979	0.3011
881	447.	440.	0.686	0.7988	0.3015
882	447.5	440.5	0.6866	0.7994	0.3017
883	448.	441.	0.6866	0.7994	0.3017
884	448.5	441.5	0.6894	0.8022	0.3027
885	449.	442.	0.6856	0.7984	0.3013
886	449.5	442.5	0.6866	0.7994	0.3017
887	450.	443.	0.6863	0.7991	0.3016
888	450.5	443.5	0.6854	0.7982	0.3012

889	451.	444.	0.6848	0.7976	0.301
890	451.5	444.5	0.6852	0.798	0.3012
891	452.	445.	0.6847	0.7975	0.301
892	452.5	445.5	0.6866	0.7994	0.3017
893	453.	446.	0.6854	0.7982	0.3012
894	453.5	446.5	0.682	0.7948	0.2999
895	454.	447.	0.6863	0.7991	0.3016
896	454.5	447.5	0.6826	0.7954	0.3002
897	455.	448.	0.6833	0.7961	0.3004
898	455.5	448.5	0.6836	0.7964	0.3006
899	456.	449.	0.6845	0.7973	0.3009
900	456.5	449.5	0.6808	0.7936	0.2995
901	457.	450.	0.6797	0.7925	0.2991
902	457.5	450.5	0.6791	0.7919	0.2989
903	458.	451.	0.6774	0.7902	0.2982
904	458.5	451.5	0.6782	0.791	0.2985
905	459.	452.	0.6829	0.7957	0.3003
906	459.5	452.5	0.682	0.7948	0.2999
907	460.	453.	0.6823	0.7951	0.3001
908	460.5	453.5	0.6818	0.7946	0.2999
909	461.	454.	0.6816	0.7944	0.2998
910	461.5	454.5	0.6793	0.7921	0.2989
911	462.	455.	0.6833	0.7961	0.3004
912	462.5	455.5	0.6799	0.7927	0.2992
913	463.	456.	0.6763	0.7891	0.2978
914	463.5	456.5	0.6765	0.7893	0.2979
915	464.	457.	0.6757	0.7885	0.2976
916	464.5	457.5	0.6742	0.787	0.297
917	465.	458.	0.6754	0.7882	0.2975
918	465.5	458.5	0.6717	0.7845	0.2961
919	466.	459.	0.6789	0.7917	0.2988
920	466.5	459.5	0.6694	0.7822	0.2952
921	467.	460.	0.6735	0.7863	0.2967
922	467.5	460.5	0.6763	0.7891	0.2978
923	468.	461.	0.68	0.7928	0.2992
924	468.5	461.5	0.6739	0.7867	0.2969
925	469.	462.	0.6785	0.7913	0.2986
926	469.5	462.5	0.6744	0.7872	0.2971
927	470.	463.	0.6771	0.7899	0.2981
928	470.5	463.5	0.6727	0.7855	0.2964
929	471.	464.	0.6729	0.7857	0.2965
930	471.5	464.5	0.6715	0.7843	0.296
931	472.	465.	0.6727	0.7855	0.2964
932	472.5	465.5	0.6749	0.7877	0.2973
933	473.	466.	0.6745	0.7873	0.2971
934	473.5	466.5	0.6749	0.7877	0.2973
935	474.	467.	0.672	0.7848	0.2962
936	474.5	467.5	0.6687	0.7815	0.2949
937	475.	468.	0.6754	0.7882	0.2975
938	475.5	468.5	0.6702	0.783	0.2955
939	476.	469.	0.6699	0.7827	0.2954
940	476.5	469.5	0.6741	0.7869	0.297
941	477.	470.	0.6741	0.7869	0.297
942	477.5	470.5	0.669	0.7818	0.295
943	478.	471.	0.6735	0.7863	0.2967
944	478.5	471.5	0.6687	0.7815	0.2949
945	479.	472.	0.6705	0.7833	0.2956

946	479.5	472.5	0.6696	0.7824	0.2953
947	480.	473.	0.6699	0.7827	0.2954
948	480.5	473.5	0.6697	0.7825	0.2953
949	481.	474.	0.6691	0.7819	0.2951
950	481.5	474.5	0.6681	0.7809	0.2947
951	482.	475.	0.667	0.7798	0.2943
952	482.5	475.5	0.6684	0.7812	0.2948
953	483.	476.	0.6682	0.781	0.2947
954	483.5	476.5	0.6696	0.7824	0.2953
955	484.	477.	0.6678	0.7806	0.2946
956	484.5	477.5	0.6594	0.7722	0.2914
957	485.	478.	0.6675	0.7803	0.2945
958	485.5	478.5	0.6684	0.7812	0.2948
959	486.	479.	0.6675	0.7803	0.2945
960	486.5	479.5	0.666	0.7788	0.2939
961	487.	480.	0.6644	0.7772	0.2933
962	487.5	480.5	0.6605	0.7733	0.2918
963	488.	481.	0.67	0.7828	0.2954
964	488.5	481.5	0.6667	0.7795	0.2942
965	489.	482.	0.6662	0.779	0.294
966	489.5	482.5	0.6621	0.7749	0.2924
967	490.	483.	0.6694	0.7822	0.2952
968	490.5	483.5	0.6684	0.7812	0.2948
969	491.	484.	0.6619	0.7747	0.2924
970	491.5	484.5	0.664	0.7768	0.2932
971	492.	485.	0.6644	0.7772	0.2933
972	492.5	485.5	0.6609	0.7737	0.292
973	493.	486.	0.6645	0.7773	0.2933
974	493.5	486.5	0.6631	0.7759	0.2928
975	494.	487.	0.659	0.7718	0.2913
976	494.5	487.5	0.6618	0.7746	0.2923
977	495.	488.	0.6609	0.7737	0.292
978	495.5	488.5	0.6591	0.7719	0.2913
979	496.	489.	0.6609	0.7737	0.292
980	496.5	489.5	0.6633	0.7761	0.2929
981	497.	490.	0.6572	0.77	0.2906
982	497.5	490.5	0.6588	0.7716	0.2912
983	498.	491.	0.6627	0.7755	0.2927
984	498.5	491.5	0.659	0.7718	0.2913
985	499.	492.	0.6629	0.7757	0.2927
986	499.5	492.5	0.6618	0.7746	0.2923
987	500.	493.	0.6608	0.7736	0.2919
988	500.5	493.5	0.6587	0.7715	0.2912
989	501.	494.	0.6561	0.7689	0.2902
990	501.5	494.5	0.6564	0.7692	0.2903
991	502.	495.	0.6596	0.7724	0.2915
992	502.5	495.5	0.661	0.7738	0.292
993	503.	496.	0.659	0.7718	0.2913
994	503.5	496.5	0.6582	0.771	0.291
995	504.	497.	0.6543	0.7671	0.2895
996	504.5	497.5	0.6629	0.7757	0.2927
997	505.	498.	0.6603	0.7731	0.2918
998	505.5	498.5	0.6593	0.7721	0.2914
999	506.	499.	0.6599	0.7727	0.2916
1000	506.5	499.5	0.6585	0.7713	0.2911
1001	507.	500.	0.6552	0.768	0.2898
1002	507.5	500.5	0.6549	0.7677	0.2897

1003	508.	501.	0.6561	0.7689	0.2902
1004	508.5	501.5	0.6572	0.77	0.2906
1005	509.	502.	0.6554	0.7682	0.2899
1006	509.5	502.5	0.657	0.7698	0.2905
1007	510.	503.	0.6542	0.767	0.2895
1008	510.5	503.5	0.6582	0.771	0.291
1009	511.	504.	0.656	0.7688	0.2901
1010	511.5	504.5	0.6579	0.7707	0.2909
1011	512.	505.	0.6537	0.7665	0.2893
1012	512.5	505.5	0.6531	0.7659	0.289
1013	513.	506.	0.6572	0.77	0.2906
1014	513.5	506.5	0.656	0.7688	0.2901
1015	514.	507.	0.6517	0.7645	0.2885
1016	514.5	507.5	0.6578	0.7706	0.2908
1017	515.	508.	0.6539	0.7667	0.2893
1018	515.5	508.5	0.6515	0.7643	0.2884
1019	516.	509.	0.6537	0.7665	0.2893
1020	516.5	509.5	0.6529	0.7657	0.289
1021	517.	510.	0.6537	0.7665	0.2893
1022	517.5	510.5	0.6554	0.7682	0.2899
1023	518.	511.	0.65	0.7628	0.2879
1024	518.5	511.5	0.6535	0.7663	0.2892
1025	519.	512.	0.6543	0.7671	0.2895
1026	519.5	512.5	0.6521	0.7649	0.2887
1027	520.	513.	0.6545	0.7673	0.2896
1028	520.5	513.5	0.646	0.7588	0.2864
1029	521.	514.	0.6527	0.7655	0.2889
1030	521.5	514.5	0.6513	0.7641	0.2884
1031	522.	515.	0.6529	0.7657	0.289
1032	522.5	515.5	0.6498	0.7626	0.2878
1033	523.	516.	0.653	0.7658	0.289
1034	523.5	516.5	0.6508	0.7636	0.2882
1035	524.	517.	0.6505	0.7633	0.2881
1036	524.5	517.5	0.6485	0.7613	0.2873
1037	525.	518.	0.6502	0.763	0.2879
1038	525.5	518.5	0.6494	0.7622	0.2876
1039	526.	519.	0.6488	0.7616	0.2874
1040	526.5	519.5	0.65	0.7628	0.2879
1041	527.	520.	0.6461	0.7589	0.2864
1042	527.5	520.5	0.6496	0.7624	0.2877
1043	528.	521.	0.6496	0.7624	0.2877
1044	528.5	521.5	0.653	0.7658	0.289
1045	529.	522.	0.6465	0.7593	0.2865
1046	529.5	522.5	0.6487	0.7615	0.2874
1047	530.	523.	0.6473	0.7601	0.2869
1048	530.5	523.5	0.6518	0.7646	0.2886
1049	531.	524.	0.6475	0.7603	0.2869
1050	531.5	524.5	0.649	0.7618	0.2875
1051	532.	525.	0.6472	0.76	0.2868
1052	532.5	525.5	0.6463	0.7591	0.2865
1053	533.	526.	0.6476	0.7604	0.287
1054	533.5	526.5	0.6442	0.757	0.2857
1055	534.	527.	0.6517	0.7645	0.2885
1056	534.5	527.5	0.6381	0.7509	0.2834
1057	535.	528.	0.6479	0.7607	0.2871
1058	535.5	528.5	0.6451	0.7579	0.286
1059	536.	529.	0.6461	0.7589	0.2864

1060	536.5	529.5	0.6464	0.7592	0.2865
1061	537.	530.	0.643	0.7558	0.2852
1062	537.5	530.5	0.6434	0.7562	0.2854
1063	538.	531.	0.6458	0.7586	0.2863
1064	538.5	531.5	0.6428	0.7556	0.2852
1065	539.	532.	0.6424	0.7552	0.285
1066	539.5	532.5	0.6445	0.7573	0.2858
1067	540.	533.	0.6436	0.7564	0.2855
1068	540.5	533.5	0.6413	0.7541	0.2846
1069	541.	534.	0.647	0.7598	0.2867
1070	541.5	534.5	0.6502	0.763	0.2879
1071	542.	535.	0.6391	0.7519	0.2838
1072	542.5	535.5	0.6403	0.7531	0.2842
1073	543.	536.	0.642	0.7548	0.2849
1074	543.5	536.5	0.6491	0.7619	0.2875
1075	544.	537.	0.6436	0.7564	0.2855
1076	544.5	537.5	0.6451	0.7579	0.286
1077	545.	538.	0.6423	0.7551	0.285
1078	545.5	538.5	0.6417	0.7545	0.2847
1079	546.	539.	0.6428	0.7556	0.2852
1080	546.5	539.5	0.6358	0.7486	0.2825
1081	547.	540.	0.6431	0.7559	0.2853
1082	547.5	540.5	0.6408	0.7536	0.2844
1083	548.	541.	0.6442	0.757	0.2857
1084	548.5	541.5	0.64	0.7528	0.2841
1085	549.	542.	0.642	0.7548	0.2849
1086	549.5	542.5	0.6417	0.7545	0.2847
1087	550.	543.	0.6445	0.7573	0.2858
1088	550.5	543.5	0.6423	0.7551	0.285
1089	551.	544.	0.643	0.7558	0.2852
1090	551.5	544.5	0.64	0.7528	0.2841
1091	552.	545.	0.6369	0.7497	0.2829
1092	552.5	545.5	0.6379	0.7507	0.2833
1093	553.	546.	0.6387	0.7515	0.2836
1094	553.5	546.5	0.6348	0.7476	0.2821
1095	554.	547.	0.6394	0.7522	0.2839
1096	554.5	547.5	0.6376	0.7504	0.2832
1097	555.	548.	0.6413	0.7541	0.2846
1098	555.5	548.5	0.6396	0.7524	0.2839
1099	556.	549.	0.6374	0.7502	0.2831
1100	556.5	549.5	0.6385	0.7513	0.2835
1101	557.	550.	0.6376	0.7504	0.2832
1102	557.5	550.5	0.6399	0.7527	0.2841
1103	558.	551.	0.6366	0.7494	0.2828
1104	558.5	551.5	0.6348	0.7476	0.2821
1105	559.	552.	0.6393	0.7521	0.2838
1106	559.5	552.5	0.6367	0.7495	0.2829
1107	560.	553.	0.6344	0.7472	0.282
1108	560.5	553.5	0.6376	0.7504	0.2832
1109	561.	554.	0.6366	0.7494	0.2828
1110	561.5	554.5	0.6378	0.7506	0.2833
1111	562.	555.	0.6369	0.7497	0.2829
1112	562.5	555.5	0.6344	0.7472	0.282
1113	563.	556.	0.633	0.7458	0.2815
1114	563.5	556.5	0.6297	0.7425	0.2802
1115	564.	557.	0.6327	0.7455	0.2813
1116	564.5	557.5	0.6358	0.7486	0.2825

1117	565.	558.	0.6357	0.7485	0.2825
1118	565.5	558.5	0.6336	0.7464	0.2817
1119	566.	559.	0.6327	0.7455	0.2813
1120	566.5	559.5	0.6327	0.7455	0.2813
1121	567.	560.	0.6316	0.7444	0.2809
1122	567.5	560.5	0.6342	0.747	0.2819
1123	568.	561.	0.6387	0.7515	0.2836
1124	568.5	561.5	0.6369	0.7497	0.2829
1125	569.	562.	0.6307	0.7435	0.2806
1126	569.5	562.5	0.6373	0.7501	0.2831
1127	570.	563.	0.6339	0.7467	0.2818
1128	570.5	563.5	0.6318	0.7446	0.281
1129	571.	564.	0.6324	0.7452	0.2812
1130	571.5	564.5	0.6346	0.7474	0.2821
1131	572.	565.	0.6319	0.7447	0.281
1132	572.5	565.5	0.6252	0.738	0.2785
1133	573.	566.	0.6337	0.7465	0.2817
1134	573.5	566.5	0.6357	0.7485	0.2825
1135	574.	567.	0.6334	0.7462	0.2816
1136	574.5	567.5	0.6273	0.7401	0.2793
1137	575.	568.	0.6315	0.7443	0.2809
1138	575.5	568.5	0.6303	0.7431	0.2804
1139	576.	569.	0.6355	0.7483	0.2824
1140	576.5	569.5	0.6327	0.7455	0.2813
1141	577.	570.	0.6313	0.7441	0.2808
1142	577.5	570.5	0.6306	0.7434	0.2805
1143	578.	571.	0.6318	0.7446	0.281
1144	578.5	571.5	0.6273	0.7401	0.2793
1145	579.	572.	0.6285	0.7413	0.2798
1146	579.5	572.5	0.6298	0.7426	0.2802
1147	580.	573.	0.6285	0.7413	0.2798
1148	580.5	573.5	0.621	0.7338	0.2769
1149	581.	574.	0.6249	0.7377	0.2784
1150	581.5	574.5	0.6324	0.7452	0.2812
1151	582.	575.	0.6282	0.741	0.2796
1152	582.5	575.5	0.6292	0.742	0.28
1153	583.	576.	0.6294	0.7422	0.2801
1154	583.5	576.5	0.6241	0.7369	0.2781
1155	584.	577.	0.629	0.7418	0.2799
1156	584.5	577.5	0.6319	0.7447	0.281
1157	585.	578.	0.629	0.7418	0.2799
1158	585.5	578.5	0.6246	0.7374	0.2783
1159	586.	579.	0.6291	0.7419	0.28
1160	586.5	579.5	0.627	0.7398	0.2792
1161	587.	580.	0.63	0.7428	0.2803
1162	587.5	580.5	0.629	0.7418	0.2799
1163	588.	581.	0.6243	0.7371	0.2782
1164	588.5	581.5	0.6252	0.738	0.2785
1165	589.	582.	0.6255	0.7383	0.2786
1166	589.5	582.5	0.6269	0.7397	0.2792
1167	590.	583.	0.6212	0.734	0.277
1168	590.5	583.5	0.6245	0.7373	0.2782
1169	591.	584.	0.6253	0.7381	0.2785
1170	591.5	584.5	0.6249	0.7377	0.2784
1171	592.	585.	0.6257	0.7385	0.2787
1172	592.5	585.5	0.6267	0.7395	0.2791
1173	593.	586.	0.6209	0.7337	0.2769

1174	593.5	586.5	0.6241	0.7369	0.2781
1175	594.	587.	0.6233	0.7361	0.2778
1176	594.5	587.5	0.6216	0.7344	0.2772
1177	595.	588.	0.6228	0.7356	0.2776
1178	595.5	588.5	0.6252	0.738	0.2785
1179	596.	589.	0.6265	0.7393	0.279
1180	596.5	589.5	0.6148	0.7276	0.2746
1181	597.	590.	0.6229	0.7357	0.2776
1182	597.5	590.5	0.6264	0.7392	0.279
1183	598.	591.	0.6225	0.7353	0.2775
1184	598.5	591.5	0.624	0.7368	0.2781
1185	599.	592.	0.6219	0.7347	0.2773
1186	599.5	592.5	0.624	0.7368	0.2781
1187	600.	593.	0.6222	0.735	0.2774
1188	600.5	593.5	0.6229	0.7357	0.2776
1189	601.	594.	0.6246	0.7374	0.2783
1190	601.5	594.5	0.6209	0.7337	0.2769
1191	602.	595.	0.6233	0.7361	0.2778
1192	602.5	595.5	0.6228	0.7356	0.2776
1193	603.	596.	0.621	0.7338	0.2769
1194	603.5	596.5	0.6216	0.7344	0.2772
1195	604.	597.	0.6206	0.7334	0.2768
1196	604.5	597.5	0.6231	0.7359	0.2777
1197	605.	598.	0.6224	0.7352	0.2775
1198	605.5	598.5	0.6217	0.7345	0.2772
1199	606.	599.	0.6262	0.739	0.2789
1200	606.5	599.5	0.6139	0.7267	0.2742
1201	607.	600.	0.6186	0.7314	0.276
1202	607.5	600.5	0.6182	0.731	0.2759
1203	608.	601.	0.621	0.7338	0.2769
1204	608.5	601.5	0.6201	0.7329	0.2766
1205	609.	602.	0.6209	0.7337	0.2769
1206	609.5	602.5	0.6224	0.7352	0.2775
1207	610.	603.	0.6189	0.7317	0.2761
1208	610.5	603.5	0.6213	0.7341	0.277
1209	611.	604.	0.6225	0.7353	0.2775
1210	611.5	604.5	0.6163	0.7291	0.2752
1211	612.	605.	0.6183	0.7311	0.2759
1212	612.5	605.5	0.6198	0.7326	0.2765
1213	613.	606.	0.6201	0.7329	0.2766
1214	613.5	606.5	0.6185	0.7313	0.276
1215	614.	607.	0.6179	0.7307	0.2758
1216	614.5	607.5	0.6119	0.7247	0.2735
1217	615.	608.	0.6177	0.7305	0.2757
1218	615.5	608.5	0.6107	0.7235	0.273
1219	616.	609.	0.6185	0.7313	0.276
1220	616.5	609.5	0.6163	0.7291	0.2752
1221	617.	610.	0.6161	0.7289	0.2751
1222	617.5	610.5	0.616	0.7288	0.275
1223	618.	611.	0.6222	0.735	0.2774
1224	618.5	611.5	0.6207	0.7335	0.2768
1225	619.	612.	0.6149	0.7277	0.2746
1226	619.5	612.5	0.6146	0.7274	0.2745
1227	620.	613.	0.6172	0.73	0.2755
1228	620.5	613.5	0.6177	0.7305	0.2757
1229	621.	614.	0.6145	0.7273	0.2745
1230	621.5	614.5	0.616	0.7288	0.275

1231	622.	615.	0.6153	0.7281	0.2748
1232	622.5	615.5	0.6182	0.731	0.2759
1233	623.	616.	0.6152	0.728	0.2747
1234	623.5	616.5	0.62	0.7328	0.2765
1235	624.	617.	0.6145	0.7273	0.2745
1236	624.5	617.5	0.6174	0.7302	0.2756
1237	625.	618.	0.6133	0.7261	0.274
1238	625.5	618.5	0.6145	0.7273	0.2745
1239	626.	619.	0.6133	0.7261	0.274
1240	626.5	619.5	0.6131	0.7259	0.2739
1241	627.	620.	0.617	0.7298	0.2754
1242	627.5	620.5	0.6157	0.7285	0.2749
1243	628.	621.	0.6121	0.7249	0.2736
1244	628.5	621.5	0.6126	0.7254	0.2738
1245	629.	622.	0.6146	0.7274	0.2745
1246	629.5	622.5	0.6146	0.7274	0.2745
1247	630.	623.	0.6113	0.7241	0.2733
1248	630.5	623.5	0.6148	0.7276	0.2746
1249	631.	624.	0.6134	0.7262	0.2741
1250	631.5	624.5	0.6125	0.7253	0.2737
1251	632.	625.	0.6149	0.7277	0.2746
1252	632.5	625.5	0.617	0.7298	0.2754
1253	633.	626.	0.6155	0.7283	0.2749
1254	633.5	626.5	0.6137	0.7265	0.2742
1255	634.	627.	0.6101	0.7229	0.2728
1256	634.5	627.5	0.6163	0.7291	0.2752
1257	635.	628.	0.6146	0.7274	0.2745
1258	635.5	628.5	0.6124	0.7252	0.2737
1259	636.	629.	0.6111	0.7239	0.2732
1260	636.5	629.5	0.6124	0.7252	0.2737
1261	637.	630.	0.6137	0.7265	0.2742
1262	637.5	630.5	0.6083	0.7211	0.2721
1263	638.	631.	0.6107	0.7235	0.273
1264	638.5	631.5	0.6085	0.7213	0.2722
1265	639.	632.	0.6141	0.7269	0.2743
1266	639.5	632.5	0.6124	0.7252	0.2737
1267	640.	633.	0.6107	0.7235	0.273
1268	640.5	633.5	0.6122	0.725	0.2736
1269	641.	634.	0.6101	0.7229	0.2728
1270	641.5	634.5	0.6084	0.7212	0.2722
1271	642.	635.	0.6116	0.7244	0.2734
1272	642.5	635.5	0.6107	0.7235	0.273
1273	643.	636.	0.613	0.7258	0.2739
1274	643.5	636.5	0.61	0.7228	0.2728
1275	644.	637.	0.6098	0.7226	0.2727
1276	644.5	637.5	0.6106	0.7234	0.273
1277	645.	638.	0.6089	0.7217	0.2724
1278	645.5	638.5	0.6084	0.7212	0.2722
1279	646.	639.	0.6084	0.7212	0.2722
1280	646.5	639.5	0.6107	0.7235	0.273
1281	647.	640.	0.6102	0.723	0.2729
1282	647.5	640.5	0.6101	0.7229	0.2728
1283	648.	641.	0.6063	0.7191	0.2714
1284	648.5	641.5	0.6077	0.7205	0.2719
1285	649.	642.	0.6085	0.7213	0.2722
1286	649.5	642.5	0.6053	0.7181	0.271
1287	650.	643.	0.6055	0.7183	0.2711

1288	650.5	643.5	0.6086	0.7214	0.2722
1289	651.	644.	0.6092	0.722	0.2725
1290	651.5	644.5	0.6063	0.7191	0.2714
1291	652.	645.	0.608	0.7208	0.272
1292	652.5	645.5	0.6046	0.7174	0.2707
1293	653.	646.	0.6086	0.7214	0.2722
1294	653.5	646.5	0.6036	0.7164	0.2704
1295	654.	647.	0.6051	0.7179	0.2709
1296	654.5	647.5	0.5989	0.7117	0.2686
1297	655.	648.	0.6026	0.7154	0.27
1298	655.5	648.5	0.6091	0.7219	0.2724
1299	656.	649.	0.608	0.7208	0.272
1300	656.5	649.5	0.6084	0.7212	0.2722
1301	657.	650.	0.6065	0.7193	0.2715
1302	657.5	650.5	0.6056	0.7184	0.2711
1303	658.	651.	0.6062	0.719	0.2713
1304	658.5	651.5	0.6067	0.7195	0.2715
1305	659.	652.	0.6101	0.7229	0.2728
1306	659.5	652.5	0.6086	0.7214	0.2722
1307	660.	653.	0.6024	0.7152	0.2699
1308	660.5	653.5	0.6058	0.7186	0.2712
1309	661.	654.	0.6076	0.7204	0.2719
1310	661.5	654.5	0.6035	0.7163	0.2703
1311	662.	655.	0.6059	0.7187	0.2712
1312	662.5	655.5	0.608	0.7208	0.272
1313	663.	656.	0.6047	0.7175	0.2708
1314	663.5	656.5	0.6055	0.7183	0.2711
1315	664.	657.	0.604	0.7168	0.2705
1316	664.5	657.5	0.6061	0.7189	0.2713
1317	665.	658.	0.6019	0.7147	0.2697
1318	665.5	658.5	0.6074	0.7202	0.2718
1319	666.	659.	0.6043	0.7171	0.2706
1320	666.5	659.5	0.6016	0.7144	0.2696
1321	667.	660.	0.6047	0.7175	0.2708
1322	667.5	660.5	0.6044	0.7172	0.2707
1323	668.	661.	0.6046	0.7174	0.2707
1324	668.5	661.5	0.6007	0.7135	0.2693
1325	669.	662.	0.6063	0.7191	0.2714
1326	669.5	662.5	0.6028	0.7156	0.2701
1327	670.	663.	0.6001	0.7129	0.269
1328	670.5	663.5	0.6029	0.7157	0.2701
1329	671.	664.	0.6011	0.7139	0.2694
1330	671.5	664.5	0.604	0.7168	0.2705
1331	672.	665.	0.6034	0.7162	0.2703
1332	672.5	665.5	0.5994	0.7122	0.2688
1333	673.	666.	0.6041	0.7169	0.2705
1334	673.5	666.5	0.6044	0.7172	0.2707
1335	674.	667.	0.5995	0.7123	0.2688
1336	674.5	667.5	0.6019	0.7147	0.2697
1337	675.	668.	0.6051	0.7179	0.2709
1338	675.5	668.5	0.5964	0.7092	0.2676
1339	676.	669.	0.6016	0.7144	0.2696
1340	676.5	669.5	0.6035	0.7163	0.2703
1341	677.	670.	0.6004	0.7132	0.2692
1342	677.5	670.5	0.5944	0.7072	0.2669
1343	678.	671.	0.6001	0.7129	0.269
1344	678.5	671.5	0.6006	0.7134	0.2692

1345	679.	672.	0.5997	0.7125	0.2689
1346	679.5	672.5	0.5953	0.7081	0.2672
1347	680.	673.	0.5998	0.7126	0.2689
1348	680.5	673.5	0.6003	0.7131	0.2691
1349	681.	674.	0.602	0.7148	0.2698
1350	681.5	674.5	0.5989	0.7117	0.2686
1351	682.	675.	0.5998	0.7126	0.2689
1352	682.5	675.5	0.5989	0.7117	0.2686
1353	683.	676.	0.6001	0.7129	0.269
1354	683.5	676.5	0.5989	0.7117	0.2686
1355	684.	677.	0.6013	0.7141	0.2695
1356	684.5	677.5	0.5995	0.7123	0.2688
1357	685.	678.	0.5954	0.7082	0.2673
1358	685.5	678.5	0.6006	0.7134	0.2692
1359	686.	679.	0.5992	0.712	0.2687
1360	686.5	679.5	0.5995	0.7123	0.2688
1361	687.	680.	0.598	0.7108	0.2682
1362	687.5	680.5	0.6004	0.7132	0.2692
1363	688.	681.	0.5981	0.7109	0.2683
1364	688.5	681.5	0.5959	0.7087	0.2675
1365	689.	682.	0.6007	0.7135	0.2693
1366	689.5	682.5	0.6001	0.7129	0.269
1367	690.	683.	0.5953	0.7081	0.2672
1368	690.5	683.5	0.6011	0.7139	0.2694
1369	691.	684.	0.5984	0.7112	0.2684
1370	691.5	684.5	0.5998	0.7126	0.2689
1371	692.	685.	0.5983	0.7111	0.2684
1372	692.5	685.5	0.5959	0.7087	0.2675
1373	693.	686.	0.597	0.7098	0.2679
1374	693.5	686.5	0.5953	0.7081	0.2672
1375	694.	687.	0.5967	0.7095	0.2678
1376	694.5	687.5	0.5963	0.7091	0.2676
1377	695.	688.	0.5952	0.708	0.2672
1378	695.5	688.5	0.5977	0.7105	0.2681
1379	696.	689.	0.5976	0.7104	0.2681
1380	696.5	689.5	0.5978	0.7106	0.2682
1381	697.	690.	0.5977	0.7105	0.2681
1382	697.5	690.5	0.5967	0.7095	0.2678
1383	698.	691.	0.6025	0.7153	0.2699
1384	698.5	691.5	0.5956	0.7084	0.2673
1385	699.	692.	0.5949	0.7077	0.2671
1386	699.5	692.5	0.5998	0.7126	0.2689
1387	700.	693.	0.5959	0.7087	0.2675
1388	700.5	693.5	0.5981	0.7109	0.2683
1389	701.	694.	0.5952	0.708	0.2672
1390	701.5	694.5	0.5876	0.7004	0.2643
1391	702.	695.	0.5976	0.7104	0.2681
1392	702.5	695.5	0.5977	0.7105	0.2681
1393	703.	696.	0.5984	0.7112	0.2684
1394	703.5	696.5	0.5887	0.7015	0.2647
1395	704.	697.	0.5894	0.7022	0.265
1396	704.5	697.5	0.5929	0.7057	0.2663
1397	705.	698.	0.5922	0.705	0.2661
1398	705.5	698.5	0.5876	0.7004	0.2643
1399	706.	699.	0.5935	0.7063	0.2665
1400	706.5	699.5	0.5952	0.708	0.2672
1401	707.	700.	0.5902	0.703	0.2653

1402	707.5	700.5	0.5941	0.7069	0.2668
1403	708.	701.	0.5935	0.7063	0.2665
1404	708.5	701.5	0.5983	0.7111	0.2684
1405	709.	702.	0.5938	0.7066	0.2667
1406	709.5	702.5	0.5961	0.7089	0.2675
1407	710.	703.	0.5923	0.7051	0.2661
1408	710.5	703.5	0.5945	0.7073	0.2669
1409	711.	704.	0.5929	0.7057	0.2663
1410	711.5	704.5	0.5931	0.7059	0.2664
1411	712.	705.	0.5917	0.7045	0.2659
1412	712.5	705.5	0.595	0.7078	0.2671
1413	713.	706.	0.5926	0.7054	0.2662
1414	713.5	706.5	0.5929	0.7057	0.2663
1415	714.	707.	0.5922	0.705	0.2661
1416	714.5	707.5	0.5906	0.7034	0.2655
1417	715.	708.	0.5928	0.7056	0.2663
1418	715.5	708.5	0.5931	0.7059	0.2664
1419	716.	709.	0.5949	0.7077	0.2671
1420	716.5	709.5	0.5926	0.7054	0.2662
1421	717.	710.	0.5934	0.7062	0.2665
1422	717.5	710.5	0.591	0.7038	0.2656
1423	718.	711.	0.5895	0.7023	0.265
1424	718.5	711.5	0.5873	0.7001	0.2642
1425	719.	712.	0.5915	0.7043	0.2658
1426	719.5	712.5	0.5938	0.7066	0.2667
1427	720.	713.	0.5892	0.702	0.2649
1428	720.5	713.5	0.5886	0.7014	0.2647
1429	721.	714.	0.5894	0.7022	0.265
1430	721.5	714.5	0.5898	0.7026	0.2652
1431	722.	715.	0.5931	0.7059	0.2664
1432	722.5	715.5	0.5912	0.704	0.2657
1433	723.	716.	0.5889	0.7017	0.2648
1434	723.5	716.5	0.5895	0.7023	0.265
1435	724.	717.	0.5898	0.7026	0.2652
1436	724.5	717.5	0.589	0.7018	0.2649
1437	725.	718.	0.591	0.7038	0.2656
1438	725.5	718.5	0.5882	0.701	0.2645
1439	726.	719.	0.5907	0.7035	0.2655
1440	726.5	719.5	0.5902	0.703	0.2653
1441	727.	720.	0.5871	0.6999	0.2641
1442	727.5	720.5	0.5873	0.7001	0.2642
1443	728.	721.	0.5916	0.7044	0.2658
1444	728.5	721.5	0.585	0.6978	0.2633
1445	729.	722.	0.5877	0.7005	0.2644
1446	729.5	722.5	0.5888	0.7016	0.2648
1447	730.	723.	0.5929	0.7057	0.2663
1448	730.5	723.5	0.5856	0.6984	0.2636
1449	731.	724.	0.5896	0.7024	0.2651
1450	731.5	724.5	0.5909	0.7037	0.2656
1451	732.	725.	0.5878	0.7006	0.2644
1452	732.5	725.5	0.5902	0.703	0.2653
1453	733.	726.	0.5909	0.7037	0.2656
1454	733.5	726.5	0.5844	0.6972	0.2631
1455	734.	727.	0.5847	0.6975	0.2632
1456	734.5	727.5	0.5895	0.7023	0.265
1457	735.	728.	0.5856	0.6984	0.2636
1458	735.5	728.5	0.5877	0.7005	0.2644

1459	736.	729.	0.5916	0.7044	0.2658
1460	736.5	729.5	0.5799	0.6927	0.2614
1461	737.	730.	0.5882	0.701	0.2645
1462	737.5	730.5	0.5837	0.6965	0.2629
1463	738.	731.	0.5865	0.6993	0.2639
1464	738.5	731.5	0.5873	0.7001	0.2642
1465	739.	732.	0.5845	0.6973	0.2632
1466	739.5	732.5	0.5865	0.6993	0.2639
1467	740.	733.	0.5878	0.7006	0.2644
1468	740.5	733.5	0.5805	0.6933	0.2616
1469	741.	734.	0.5841	0.6969	0.263
1470	741.5	734.5	0.5857	0.6985	0.2636
1471	742.	735.	0.5874	0.7002	0.2642
1472	742.5	735.5	0.5847	0.6975	0.2632
1473	743.	736.	0.5841	0.6969	0.263
1474	743.5	736.5	0.5874	0.7002	0.2642
1475	744.	737.	0.5857	0.6985	0.2636
1476	744.5	737.5	0.5823	0.6951	0.2623
1477	745.	738.	0.5862	0.699	0.2638
1478	745.5	738.5	0.5861	0.6989	0.2638
1479	746.	739.	0.582	0.6948	0.2622
1480	746.5	739.5	0.5772	0.69	0.2604
1481	747.	740.	0.587	0.6998	0.2641
1482	747.5	740.5	0.5823	0.6951	0.2623
1483	748.	741.	0.585	0.6978	0.2633
1484	748.5	741.5	0.5878	0.7006	0.2644
1485	749.	742.	0.5868	0.6996	0.264
1486	749.5	742.5	0.5878	0.7006	0.2644
1487	750.	743.	0.581	0.6938	0.2618
1488	750.5	743.5	0.5775	0.6903	0.2605
1489	751.	744.	0.5868	0.6996	0.264
1490	751.5	744.5	0.5795	0.6923	0.2613
1491	752.	745.	0.5811	0.6939	0.2619
1492	752.5	745.5	0.5853	0.6981	0.2635
1493	753.	746.	0.584	0.6968	0.263
1494	753.5	746.5	0.587	0.6998	0.2641
1495	754.	747.	0.5813	0.6941	0.2619
1496	754.5	747.5	0.582	0.6948	0.2622
1497	755.	748.	0.5786	0.6914	0.2609
1498	755.5	748.5	0.5834	0.6962	0.2627
1499	756.	749.	0.581	0.6938	0.2618
1500	756.5	749.5	0.5793	0.6921	0.2612
1501	757.	750.	0.5822	0.695	0.2623
1502	757.5	750.5	0.581	0.6938	0.2618
1503	758.	751.	0.5832	0.696	0.2627
1504	758.5	751.5	0.5813	0.6941	0.2619
1505	759.	752.	0.5798	0.6926	0.2614
1506	759.5	752.5	0.5823	0.6951	0.2623
1507	760.	753.	0.5792	0.692	0.2612
1508	760.5	753.5	0.5763	0.6891	0.2601
1509	761.	754.	0.5794	0.6922	0.2612
1510	761.5	754.5	0.5829	0.6957	0.2625
1511	762.	755.	0.5853	0.6981	0.2635
1512	762.5	755.5	0.5828	0.6956	0.2625
1513	763.	756.	0.5786	0.6914	0.2609
1514	763.5	756.5	0.5783	0.6911	0.2608
1515	764.	757.	0.5813	0.6941	0.2619

1516	764.5	757.5	0.579	0.6918	0.2611
1517	765.	758.	0.5742	0.687	0.2593
1518	765.5	758.5	0.582	0.6948	0.2622
1519	766.	759.	0.5789	0.6917	0.261
1520	766.5	759.5	0.5806	0.6934	0.2617
1521	767.	760.	0.5792	0.692	0.2612
1522	767.5	760.5	0.5753	0.6881	0.2597
1523	768.	761.	0.5781	0.6909	0.2607
1524	768.5	761.5	0.58	0.6928	0.2615
1525	769.	762.	0.5822	0.695	0.2623
1526	769.5	762.5	0.5774	0.6902	0.2605
1527	770.	763.	0.585	0.6978	0.2633
1528	770.5	763.5	0.5811	0.6939	0.2619
1529	771.	764.	0.579	0.6918	0.2611
1530	771.5	764.5	0.5813	0.6941	0.2619
1531	772.	765.	0.5777	0.6905	0.2606
1532	772.5	765.5	0.5786	0.6914	0.2609
1533	773.	766.	0.5823	0.6951	0.2623
1534	773.5	766.5	0.5744	0.6872	0.2593
1535	774.	767.	0.5757	0.6885	0.2598
1536	774.5	767.5	0.579	0.6918	0.2611
1537	775.	768.	0.5741	0.6869	0.2592
1538	775.5	768.5	0.5808	0.6936	0.2618
1539	776.	769.	0.5771	0.6899	0.2604
1540	776.5	769.5	0.5771	0.6899	0.2604
1541	777.	770.	0.5816	0.6944	0.2621
1542	777.5	770.5	0.5774	0.6902	0.2605
1543	778.	771.	0.5762	0.689	0.26
1544	778.5	771.5	0.579	0.6918	0.2611
1545	779.	772.	0.5742	0.687	0.2593
1546	779.5	772.5	0.5813	0.6941	0.2619
1547	780.	773.	0.5787	0.6915	0.261
1548	780.5	773.5	0.5756	0.6884	0.2598
1549	781.	774.	0.5802	0.693	0.2615
1550	781.5	774.5	0.5734	0.6862	0.259
1551	782.	775.	0.5783	0.6911	0.2608
1552	782.5	775.5	0.5774	0.6902	0.2605
1553	783.	776.	0.5786	0.6914	0.2609
1554	783.5	776.5	0.5738	0.6866	0.2591
1555	784.	777.	0.5752	0.688	0.2596
1556	784.5	777.5	0.5747	0.6875	0.2595
1557	785.	778.	0.5828	0.6956	0.2625
1558	785.5	778.5	0.5754	0.6882	0.2597
1559	786.	779.	0.5763	0.6891	0.2601
1560	786.5	779.5	0.5802	0.693	0.2615
1561	787.	780.	0.5775	0.6903	0.2605
1562	787.5	780.5	0.5742	0.687	0.2593
1563	788.	781.	0.5752	0.688	0.2596
1564	788.5	781.5	0.5747	0.6875	0.2595
1565	789.	782.	0.5723	0.6851	0.2585
1566	789.5	782.5	0.5759	0.6887	0.2599
1567	790.	783.	0.5761	0.6889	0.26
1568	790.5	783.5	0.5722	0.685	0.2585
1569	791.	784.	0.5813	0.6941	0.2619
1570	791.5	784.5	0.5744	0.6872	0.2593
1571	792.	785.	0.5768	0.6896	0.2602
1572	792.5	785.5	0.5736	0.6864	0.259

1573	793.	786.	0.5769	0.6897	0.2603
1574	793.5	786.5	0.5752	0.688	0.2596
1575	794.	787.	0.5757	0.6885	0.2598
1576	794.5	787.5	0.5759	0.6887	0.2599
1577	795.	788.	0.5716	0.6844	0.2583
1578	795.5	788.5	0.573	0.6858	0.2588
1579	796.	789.	0.5716	0.6844	0.2583
1580	796.5	789.5	0.5768	0.6896	0.2602
1581	797.	790.	0.5723	0.6851	0.2585
1582	797.5	790.5	0.573	0.6858	0.2588
1583	798.	791.	0.5704	0.6832	0.2578
1584	798.5	791.5	0.5738	0.6866	0.2591
1585	799.	792.	0.574	0.6868	0.2592
1586	799.5	792.5	0.5705	0.6833	0.2579
1587	800.	793.	0.575	0.6878	0.2596
1588	800.5	793.5	0.573	0.6858	0.2588
1589	801.	794.	0.5729	0.6857	0.2588
1590	801.5	794.5	0.5754	0.6882	0.2597
1591	802.	795.	0.5742	0.687	0.2593
1592	802.5	795.5	0.5689	0.6817	0.2573
1593	803.	796.	0.5729	0.6857	0.2588
1594	803.5	796.5	0.5702	0.683	0.2578
1595	804.	797.	0.572	0.6848	0.2584
1596	804.5	797.5	0.5674	0.6802	0.2567
1597	805.	798.	0.5729	0.6857	0.2588
1598	805.5	798.5	0.5714	0.6842	0.2582
1599	806.	799.	0.5712	0.684	0.2581
1600	806.5	799.5	0.5696	0.6824	0.2575
1601	807.	800.	0.5707	0.6835	0.2579
1602	807.5	800.5	0.5718	0.6846	0.2584
1603	808.	801.	0.5723	0.6851	0.2585
1604	808.5	801.5	0.5729	0.6857	0.2588
1605	809.	802.	0.5729	0.6857	0.2588
1606	809.5	802.5	0.5677	0.6805	0.2568
1607	810.	803.	0.5705	0.6833	0.2579
1608	810.5	803.5	0.5725	0.6853	0.2586
1609	811.	804.	0.5749	0.6877	0.2595
1610	811.5	804.5	0.5693	0.6821	0.2574
1611	812.	805.	0.5698	0.6826	0.2576
1612	812.5	805.5	0.5704	0.6832	0.2578
1613	813.	806.	0.5701	0.6829	0.2577
1614	813.5	806.5	0.5701	0.6829	0.2577
1615	814.	807.	0.5686	0.6814	0.2572
1616	814.5	807.5	0.5614	0.6742	0.2544
1617	815.	808.	0.5702	0.683	0.2578
1618	815.5	808.5	0.5736	0.6864	0.259
1619	816.	809.	0.5727	0.6855	0.2587
1620	816.5	809.5	0.5677	0.6805	0.2568
1621	817.	810.	0.5726	0.6854	0.2587
1622	817.5	810.5	0.5681	0.6809	0.257
1623	818.	811.	0.5707	0.6835	0.2579
1624	818.5	811.5	0.5711	0.6839	0.2581
1625	819.	812.	0.5741	0.6869	0.2592
1626	819.5	812.5	0.5705	0.6833	0.2579
1627	820.	813.	0.5727	0.6855	0.2587
1628	820.5	813.5	0.5687	0.6815	0.2572
1629	821.	814.	0.5707	0.6835	0.2579

1630	821.5	814.5	0.5695	0.6823	0.2575
1631	822.	815.	0.5668	0.6796	0.2565
1632	822.5	815.5	0.5698	0.6826	0.2576
1633	823.	816.	0.5669	0.6797	0.2565
1634	823.5	816.5	0.5701	0.6829	0.2577
1635	824.	817.	0.5645	0.6773	0.2556
1636	824.5	817.5	0.5653	0.6781	0.2559
1637	825.	818.	0.5626	0.6754	0.2549
1638	825.5	818.5	0.572	0.6848	0.2584
1639	826.	819.	0.5696	0.6824	0.2575
1640	826.5	819.5	0.5675	0.6803	0.2567
1641	827.	820.	0.5693	0.6821	0.2574
1642	827.5	820.5	0.5677	0.6805	0.2568
1643	828.	821.	0.5678	0.6806	0.2568
1644	828.5	821.5	0.5663	0.6791	0.2563
1645	829.	822.	0.5707	0.6835	0.2579
1646	829.5	822.5	0.5663	0.6791	0.2563
1647	830.	823.	0.5662	0.679	0.2562
1648	830.5	823.5	0.5684	0.6812	0.2571
1649	831.	824.	0.5633	0.6761	0.2552
1650	831.5	824.5	0.5657	0.6785	0.2561
1651	832.	825.	0.5709	0.6837	0.258
1652	832.5	825.5	0.563	0.6758	0.255
1653	833.	826.	0.5651	0.6779	0.2558
1654	833.5	826.5	0.5667	0.6795	0.2564
1655	834.	827.	0.5663	0.6791	0.2563
1656	834.5	827.5	0.5654	0.6782	0.2559
1657	835.	828.	0.5662	0.679	0.2562
1658	835.5	828.5	0.5678	0.6806	0.2568
1659	836.	829.	0.5657	0.6785	0.2561
1660	836.5	829.5	0.5603	0.6731	0.254
1661	837.	830.	0.5644	0.6772	0.2556
1662	837.5	830.5	0.5657	0.6785	0.2561
1663	838.	831.	0.5702	0.683	0.2578
1664	838.5	831.5	0.5653	0.6781	0.2559
1665	839.	832.	0.5602	0.673	0.254
1666	839.5	832.5	0.5639	0.6767	0.2554
1667	840.	833.	0.5625	0.6753	0.2548
1668	840.5	833.5	0.5668	0.6796	0.2565
1669	841.	834.	0.5669	0.6797	0.2565
1670	841.5	834.5	0.5656	0.6784	0.256
1671	842.	835.	0.5645	0.6773	0.2556
1672	842.5	835.5	0.5665	0.6793	0.2564
1673	843.	836.	0.5672	0.68	0.2566
1674	843.5	836.5	0.5593	0.6721	0.2536
1675	844.	837.	0.5625	0.6753	0.2548
1676	844.5	837.5	0.5667	0.6795	0.2564
1677	845.	838.	0.5641	0.6769	0.2555
1678	845.5	838.5	0.5608	0.6736	0.2542
1679	846.	839.	0.5578	0.6706	0.2531
1680	846.5	839.5	0.5638	0.6766	0.2553
1681	847.	840.	0.5569	0.6697	0.2527
1682	847.5	840.5	0.5638	0.6766	0.2553
1683	848.	841.	0.5639	0.6767	0.2554
1684	848.5	841.5	0.5592	0.672	0.2536
1685	849.	842.	0.5649	0.6777	0.2558
1686	849.5	842.5	0.5609	0.6737	0.2542

1687	850.	843.	0.5638	0.6766	0.2553
1688	850.5	843.5	0.5635	0.6763	0.2552
1689	851.	844.	0.5626	0.6754	0.2549
1690	851.5	844.5	0.5639	0.6767	0.2554
1691	852.	845.	0.569	0.6818	0.2573
1692	852.5	845.5	0.5616	0.6744	0.2545
1693	853.	846.	0.5596	0.6724	0.2538
1694	853.5	846.5	0.5618	0.6746	0.2546
1695	854.	847.	0.5611	0.6739	0.2543
1696	854.5	847.5	0.5616	0.6744	0.2545
1697	855.	848.	0.5572	0.67	0.2528
1698	855.5	848.5	0.5635	0.6763	0.2552
1699	856.	849.	0.5609	0.6737	0.2542
1700	856.5	849.5	0.5612	0.674	0.2544
1701	857.	850.	0.5665	0.6793	0.2564
1702	857.5	850.5	0.5593	0.6721	0.2536
1703	858.	851.	0.5609	0.6737	0.2542
1704	858.5	851.5	0.5657	0.6785	0.2561
1705	859.	852.	0.5587	0.6715	0.2534
1706	859.5	852.5	0.5626	0.6754	0.2549
1707	860.	853.	0.5642	0.677	0.2555
1708	860.5	853.5	0.5612	0.674	0.2544
1709	861.	854.	0.5626	0.6754	0.2549
1710	861.5	854.5	0.5571	0.6699	0.2528
1711	862.	855.	0.5582	0.671	0.2532
1712	862.5	855.5	0.5569	0.6697	0.2527
1713	863.	856.	0.5597	0.6725	0.2538
1714	863.5	856.5	0.5581	0.6709	0.2532
1715	864.	857.	0.56	0.6728	0.2539
1716	864.5	857.5	0.5591	0.6719	0.2536
1717	865.	858.	0.5567	0.6695	0.2527
1718	865.5	858.5	0.5638	0.6766	0.2553
1719	866.	859.	0.5616	0.6744	0.2545
1720	866.5	859.5	0.5567	0.6695	0.2527
1721	867.	860.	0.5616	0.6744	0.2545
1722	867.5	860.5	0.56	0.6728	0.2539
1723	868.	861.	0.5587	0.6715	0.2534
1724	868.5	861.5	0.559	0.6718	0.2535
1725	869.	862.	0.5575	0.6703	0.253
1726	869.5	862.5	0.5609	0.6737	0.2542
1727	870.	863.	0.5609	0.6737	0.2542
1728	870.5	863.5	0.5608	0.6736	0.2542
1729	871.	864.	0.5581	0.6709	0.2532
1730	871.5	864.5	0.5578	0.6706	0.2531
1731	872.	865.	0.5586	0.6714	0.2534
1732	872.5	865.5	0.5558	0.6686	0.2523
1733	873.	866.	0.5579	0.6707	0.2531
1734	873.5	866.5	0.5581	0.6709	0.2532
1735	874.	867.	0.5572	0.67	0.2528
1736	874.5	867.5	0.5569	0.6697	0.2527
1737	875.	868.	0.5562	0.669	0.2525
1738	875.5	868.5	0.559	0.6718	0.2535
1739	876.	869.	0.5599	0.6727	0.2539
1740	876.5	869.5	0.5575	0.6703	0.253
1741	877.	870.	0.5593	0.6721	0.2536
1742	877.5	870.5	0.5545	0.6673	0.2518
1743	878.	871.	0.5561	0.6689	0.2524

1744	878.5	871.5	0.5573	0.6701	0.2529
1745	879.	872.	0.5579	0.6707	0.2531
1746	879.5	872.5	0.5573	0.6701	0.2529
1747	880.	873.	0.5549	0.6677	0.252
1748	880.5	873.5	0.5554	0.6682	0.2522
1749	881.	874.	0.5563	0.6691	0.2525
1750	881.5	874.5	0.5554	0.6682	0.2522
1751	882.	875.	0.5563	0.6691	0.2525
1752	882.5	875.5	0.5554	0.6682	0.2522
1753	883.	876.	0.5555	0.6683	0.2522
1754	883.5	876.5	0.5573	0.6701	0.2529
1755	884.	877.	0.5611	0.6739	0.2543
1756	884.5	877.5	0.5569	0.6697	0.2527
1757	885.	878.	0.5542	0.667	0.2517
1758	885.5	878.5	0.5584	0.6712	0.2533
1759	886.	879.	0.5594	0.6722	0.2537
1760	886.5	879.5	0.5527	0.6655	0.2512
1761	887.	880.	0.5521	0.6649	0.2509
1762	887.5	880.5	0.5567	0.6695	0.2527
1763	888.	881.	0.5561	0.6689	0.2524
1764	888.5	881.5	0.5544	0.6672	0.2518
1765	889.	882.	0.5538	0.6666	0.2516
1766	889.5	882.5	0.5571	0.6699	0.2528
1767	890.	883.	0.5538	0.6666	0.2516
1768	890.5	883.5	0.5572	0.67	0.2528
1769	891.	884.	0.5526	0.6654	0.2511
1770	891.5	884.5	0.5475	0.6603	0.2492
1771	892.	885.	0.5518	0.6646	0.2508
1772	892.5	885.5	0.5567	0.6695	0.2527
1773	893.	886.	0.5551	0.6679	0.2521
1774	893.5	886.5	0.5532	0.666	0.2513
1775	894.	887.	0.5555	0.6683	0.2522
1776	894.5	887.5	0.5502	0.663	0.2502
1777	895.	888.	0.5529	0.6657	0.2512
1778	895.5	888.5	0.5538	0.6666	0.2516
1779	896.	889.	0.5551	0.6679	0.2521
1780	896.5	889.5	0.5504	0.6632	0.2503
1781	897.	890.	0.5533	0.6661	0.2514
1782	897.5	890.5	0.5496	0.6624	0.25
1783	898.	891.	0.5593	0.6721	0.2536
1784	898.5	891.5	0.5448	0.6576	0.2482
1785	899.	892.	0.555	0.6678	0.252
1786	899.5	892.5	0.5575	0.6703	0.253
1787	900.	893.	0.5562	0.669	0.2525
1788	900.5	893.5	0.5552	0.668	0.2521
1789	901.	894.	0.5562	0.669	0.2525
1790	901.5	894.5	0.5498	0.6626	0.2501
1791	902.	895.	0.5533	0.6661	0.2514
1792	902.5	895.5	0.5544	0.6672	0.2518
1793	903.	896.	0.5618	0.6746	0.2546
1794	903.5	896.5	0.5521	0.6649	0.2509
1795	904.	897.	0.549	0.6618	0.2498
1796	904.5	897.5	0.5545	0.6673	0.2518
1797	905.	898.	0.5499	0.6627	0.2501
1798	905.5	898.5	0.5505	0.6633	0.2503
1799	906.	899.	0.5471	0.6599	0.249
1800	906.5	899.5	0.5481	0.6609	0.2494

1801	907.	900.	0.5472	0.66	0.2491
1802	907.5	900.5	0.5469	0.6597	0.249
1803	908.	901.	0.5468	0.6596	0.2489
1804	908.5	901.5	0.5473	0.6601	0.2491
1805	909.	902.	0.5475	0.6603	0.2492
1806	909.5	902.5	0.5471	0.6599	0.249
1807	910.	903.	0.5234	0.6362	0.2401
1808	910.5	903.5	0.5411	0.6539	0.2468
1809	911.	904.	0.543	0.6558	0.2475
1810	911.5	904.5	0.5427	0.6555	0.2474
1811	912.	905.	0.543	0.6558	0.2475
1812	912.5	905.5	0.5423	0.6551	0.2472
1813	913.	906.	0.5506	0.6634	0.2504
1814	913.5	906.5	0.5408	0.6536	0.2467
1815	914.	907.	0.5394	0.6522	0.2461

MW-3 Slug Test

Site Name:	378 Truck Stop
Location:	Edgefield, SC
Test Date:	5/25/10
Client:	Wilkerson Fuel Company, Inc.
Project Number:	14-214210
Import File:	F:\Projects\14-214210 378 Truck Stop\Tier I\378 truck stop Slug tests\MW-3.txt

Well Label:	MW-3
Aquifer Thickness:	36. feet
Screen Length:	30. feet
Casing Radius:	1. Inches
Effective Radius:	3.25 Inches
Static Water Level:	-2.704e-002 feet
Water Table to Screen Bottom:	22.6 feet
Anisotropy Ratio:	1.
Time Adjustment:	4.501 Seconds

Test starts with trial 0
There are 1767 time and drawdown measurements
Maximum head is 2.228 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	4.501	0.	2.201	2.228	1.
2	5.001	0.5	1.691	1.718	0.7711
3	5.501	1.	2.184	2.211	0.9924
4	6.001	1.5	1.755	1.782	0.7998
5	6.501	2.	1.688	1.715	0.7698
6	7.001	2.5	1.767	1.794	0.8052
7	7.501	3.	1.561	1.588	0.7128
8	8.001	3.5	1.504	1.531	0.6872
9	8.501	4.	1.492	1.519	0.6818
10	9.001	4.5	1.399	1.426	0.64
11	9.501	5.	1.352	1.379	0.6189
12	10.	5.499	1.285	1.312	0.5889
13	10.5	5.999	1.214	1.241	0.557
14	11.	6.499	1.199	1.226	0.5503
15	11.5	6.999	1.098	1.125	0.5049
16	12.	7.499	1.077	1.104	0.4955
17	12.5	7.999	1.02	1.047	0.4699
18	13.	8.499	0.9717	0.9987	0.4483
19	13.5	8.999	0.9485	0.9755	0.4378
20	14.	9.499	0.9007	0.9277	0.4164
21	14.5	9.999	0.8705	0.8975	0.4028
22	15.	10.5	0.8522	0.8792	0.3946
23	15.5	11.	0.8193	0.8463	0.3799
24	16.	11.5	0.8044	0.8314	0.3732
25	16.5	12.	0.7844	0.8114	0.3642
26	17.	12.5	0.7666	0.7936	0.3562
27	17.5	13.	0.7539	0.7809	0.3505
28	18.	13.5	0.7416	0.7686	0.345
29	18.5	14.	0.728	0.755	0.3389
30	19.	14.5	0.7192	0.7462	0.3349
31	19.5	15.	0.7163	0.7433	0.3336
32	20.	15.5	0.705	0.732	0.3286
33	20.5	16.	0.6914	0.7184	0.3225

34	21.	16.5	0.6866	0.7136	0.3203
35	21.5	17.	0.6788	0.7058	0.3168
36	22.	17.5	0.677	0.704	0.316
37	22.5	18.	0.6694	0.6964	0.3126
38	23.	18.5	0.6573	0.6843	0.3071
39	23.5	19.	0.654	0.681	0.3057
40	24.	19.5	0.6502	0.6772	0.304
41	24.5	20.	0.641	0.668	0.2998
42	25.	20.5	0.6382	0.6652	0.2986
43	25.5	21.	0.6324	0.6594	0.296
44	26.	21.5	0.6281	0.6551	0.294
45	26.5	22.	0.6278	0.6548	0.2939
46	27.	22.5	0.6171	0.6441	0.2891
47	27.5	23.	0.6193	0.6463	0.2901
48	28.	23.5	0.6145	0.6415	0.2879
49	28.5	24.	0.6093	0.6363	0.2856
50	29.	24.5	0.6054	0.6324	0.2839
51	29.5	25.	0.6017	0.6287	0.2822
52	30.	25.5	0.5991	0.6261	0.281
53	30.5	26.	0.597	0.624	0.2801
54	31.	26.5	0.5932	0.6202	0.2784
55	31.5	27.	0.5891	0.6161	0.2765
56	32.	27.5	0.5972	0.6242	0.2802
57	32.5	28.	0.5867	0.6137	0.2755
58	33.	28.5	0.5792	0.6062	0.2721
59	33.5	29.	0.5749	0.6019	0.2702
60	34.	29.5	0.5707	0.5977	0.2683
61	34.5	30.	0.5727	0.5997	0.2692
62	35.	30.5	0.5664	0.5934	0.2664
63	35.5	31.	0.5677	0.5947	0.2669
64	36.	31.5	0.5608	0.5878	0.2638
65	36.5	32.	0.5596	0.5866	0.2633
66	37.	32.5	0.5602	0.5872	0.2636
67	37.5	33.	0.551	0.578	0.2594
68	38.	33.5	0.5538	0.5808	0.2607
69	38.5	34.	0.5545	0.5815	0.261
70	39.	34.5	0.5548	0.5818	0.2611
71	39.5	35.	0.5448	0.5718	0.2567
72	40.	35.5	0.5481	0.5751	0.2581
73	40.5	36.	0.5444	0.5714	0.2565
74	41.	36.5	0.5444	0.5714	0.2565
75	41.5	37.	0.5378	0.5648	0.2535
76	42.	37.5	0.5324	0.5594	0.2511
77	42.5	38.	0.5291	0.5561	0.2496
78	43.	38.5	0.5293	0.5563	0.2497
79	43.5	39.	0.5306	0.5576	0.2503
80	44.	39.5	0.5286	0.5556	0.2494
81	44.5	40.	0.5212	0.5482	0.2461
82	45.	40.5	0.5263	0.5533	0.2484
83	45.5	41.	0.5209	0.5479	0.2459
84	46.	41.5	0.5192	0.5462	0.2452
85	46.5	42.	0.5131	0.5401	0.2424
86	47.	42.5	0.513	0.54	0.2424
87	47.5	43.	0.5088	0.5358	0.2405
88	48.	43.5	0.513	0.54	0.2424
89	48.5	44.	0.5097	0.5367	0.2409
90	49.	44.5	0.5077	0.5347	0.24

91	49.5	45.	0.5029	0.5299	0.2379
92	50.	45.5	0.5018	0.5288	0.2374
93	50.5	46.	0.4945	0.5215	0.2341
94	51.	46.5	0.5001	0.5271	0.2366
95	51.5	47.	0.4976	0.5246	0.2355
96	52.	47.5	0.4933	0.5203	0.2335
97	52.5	48.	0.4865	0.5135	0.2305
98	53.	48.5	0.4946	0.5216	0.2341
99	53.5	49.	0.4958	0.5228	0.2347
100	54.	49.5	0.4909	0.5179	0.2325
101	54.5	50.	0.4804	0.5074	0.2278
102	55.	50.5	0.4797	0.5067	0.2274
103	55.5	51.	0.4833	0.5103	0.2291
104	56.	51.5	0.4815	0.5085	0.2282
105	56.5	52.	0.4731	0.5001	0.2245
106	57.	52.5	0.4823	0.5093	0.2286
107	57.5	53.	0.4726	0.4996	0.2243
108	58.	53.5	0.4671	0.4941	0.2218
109	58.5	54.	0.4675	0.4945	0.222
110	59.	54.5	0.468	0.495	0.2222
111	59.5	55.	0.4626	0.4896	0.2198
112	60.	55.5	0.4658	0.4928	0.2212
113	60.5	56.	0.4657	0.4927	0.2212
114	61.	56.5	0.4634	0.4904	0.2201
115	61.5	57.	0.4557	0.4827	0.2167
116	62.	57.5	0.4546	0.4816	0.2162
117	62.5	58.	0.4608	0.4878	0.219
118	63.	58.5	0.4547	0.4817	0.2162
119	63.5	59.	0.4586	0.4856	0.218
120	64.	59.5	0.4565	0.4835	0.217
121	64.5	60.	0.4596	0.4866	0.2184
122	65.	60.5	0.4529	0.4799	0.2154
123	65.5	61.	0.4464	0.4734	0.2125
124	66.	61.5	0.4464	0.4734	0.2125
125	66.5	62.	0.4472	0.4742	0.2129
126	67.	62.5	0.438	0.465	0.2087
127	67.5	63.	0.443	0.47	0.211
128	68.	63.5	0.446	0.473	0.2123
129	68.5	64.	0.4393	0.4663	0.2093
130	69.	64.5	0.4441	0.4711	0.2115
131	69.5	65.	0.4417	0.4687	0.2104
132	70.	65.5	0.4333	0.4603	0.2066
133	70.5	66.	0.4368	0.4638	0.2082
134	71.	66.5	0.4342	0.4612	0.207
135	71.5	67.	0.4338	0.4608	0.2068
136	72.	67.5	0.4333	0.4603	0.2066
137	72.5	68.	0.4237	0.4507	0.2023
138	73.	68.5	0.4273	0.4543	0.2039
139	73.5	69.	0.4291	0.4561	0.2047
140	74.	69.5	0.4216	0.4486	0.2014
141	74.5	70.	0.435	0.462	0.2074
142	75.	70.5	0.419	0.446	0.2002
143	75.5	71.	0.4197	0.4467	0.2005
144	76.	71.5	0.4259	0.4529	0.2033
145	76.5	72.	0.4248	0.4518	0.2028
146	77.	72.5	0.4191	0.4461	0.2002
147	77.5	73.	0.4167	0.4437	0.1992

148	78.	73.5	0.4181	0.4451	0.1998
149	78.5	74.	0.4134	0.4404	0.1977
150	79.	74.5	0.4091	0.4361	0.1958
151	79.5	75.	0.41	0.437	0.1962
152	80.	75.5	0.4145	0.4415	0.1982
153	80.5	76.	0.4077	0.4347	0.1951
154	81.	76.5	0.4087	0.4357	0.1956
155	81.5	77.	0.4119	0.4389	0.197
156	82.	77.5	0.4067	0.4337	0.1947
157	82.5	78.	0.4043	0.4313	0.1936
158	83.	78.5	0.4001	0.4271	0.1917
159	83.5	79.	0.4006	0.4276	0.1919
160	84.	79.5	0.4049	0.4319	0.1939
161	84.5	80.	0.3965	0.4235	0.1901
162	85.	80.5	0.3958	0.4228	0.1898
163	85.5	81.	0.3986	0.4256	0.191
164	86.	81.5	0.3967	0.4237	0.1902
165	86.5	82.	0.3991	0.4261	0.1913
166	87.	82.5	0.3941	0.4211	0.189
167	87.5	83.	0.3997	0.4267	0.1915
168	88.	83.5	0.394	0.421	0.189
169	88.5	84.	0.3883	0.4153	0.1864
170	89.	84.5	0.3943	0.4213	0.1891
171	89.5	85.	0.3965	0.4235	0.1901
172	90.	85.5	0.39	0.417	0.1872
173	90.5	86.	0.39	0.417	0.1872
174	91.	86.5	0.3898	0.4168	0.1871
175	91.5	87.	0.3918	0.4188	0.188
176	92.	87.5	0.3927	0.4197	0.1884
177	92.5	88.	0.3862	0.4132	0.1855
178	93.	88.5	0.388	0.415	0.1863
179	93.5	89.	0.3805	0.4075	0.1829
180	94.	89.5	0.3867	0.4137	0.1857
181	94.5	90.	0.3834	0.4104	0.1842
182	95.	90.5	0.3838	0.4108	0.1844
183	95.5	91.	0.3834	0.4104	0.1842
184	96.	91.5	0.3816	0.4086	0.1834
185	96.5	92.	0.3726	0.3996	0.1794
186	97.	92.5	0.3768	0.4038	0.1813
187	97.5	93.	0.3704	0.3974	0.1784
188	98.	93.5	0.3774	0.4044	0.1815
189	98.5	94.	0.3701	0.3971	0.1782
190	99.	94.5	0.3726	0.3996	0.1794
191	99.5	95.	0.3693	0.3963	0.1779
192	100.	95.5	0.3648	0.3918	0.1759
193	100.5	96.	0.3666	0.3936	0.1767
194	101.	96.5	0.3698	0.3968	0.1781
195	101.5	97.	0.3683	0.3953	0.1774
196	102.	97.5	0.368	0.395	0.1773
197	102.5	98.	0.3653	0.3923	0.1761
198	103.	98.5	0.3705	0.3975	0.1784
199	103.5	99.	0.3656	0.3926	0.1762
200	104.	99.5	0.3663	0.3933	0.1765
201	104.5	100.	0.3641	0.3911	0.1756
202	105.	100.5	0.3704	0.3974	0.1784
203	105.5	101.	0.3622	0.3892	0.1747
204	106.	101.5	0.3635	0.3905	0.1753

205	106.5	102.	0.359	0.386	0.1733
206	107.	102.5	0.3605	0.3875	0.1739
207	107.5	103.	0.3585	0.3855	0.173
208	108.	103.5	0.3559	0.3829	0.1719
209	108.5	104.	0.3578	0.3848	0.1727
210	109.	104.5	0.3543	0.3813	0.1712
211	109.5	105.	0.3562	0.3832	0.172
212	110.	105.5	0.3557	0.3827	0.1718
213	110.5	106.	0.354	0.381	0.171
214	111.	106.5	0.3509	0.3779	0.1696
215	111.5	107.	0.3487	0.3757	0.1686
216	112.	107.5	0.346	0.373	0.1674
217	112.5	108.	0.3462	0.3732	0.1675
218	113.	108.5	0.3459	0.3729	0.1674
219	113.5	109.	0.3405	0.3675	0.165
220	114.	109.5	0.3499	0.3769	0.1692
221	114.5	110.	0.3496	0.3766	0.169
222	115.	110.5	0.3465	0.3735	0.1677
223	115.5	111.	0.3441	0.3711	0.1666
224	116.	111.5	0.3405	0.3675	0.165
225	116.5	112.	0.3406	0.3676	0.165
226	117.	112.5	0.3438	0.3708	0.1664
227	117.5	113.	0.3405	0.3675	0.165
228	118.	113.5	0.3405	0.3675	0.165
229	118.5	114.	0.3385	0.3655	0.1641
230	119.	114.5	0.3439	0.3709	0.1665
231	119.5	115.	0.3385	0.3655	0.1641
232	120.	115.5	0.3354	0.3624	0.1627
233	120.5	116.	0.3408	0.3678	0.1651
234	121.	116.5	0.3367	0.3637	0.1633
235	121.5	117.	0.3316	0.3586	0.161
236	122.	117.5	0.3301	0.3571	0.1603
237	122.5	118.	0.3332	0.3602	0.1617
238	123.	118.5	0.3369	0.3639	0.1633
239	123.5	119.	0.3307	0.3577	0.1606
240	124.	119.5	0.3321	0.3591	0.1612
241	124.5	120.	0.3332	0.3602	0.1617
242	125.	120.5	0.3333	0.3603	0.1617
243	125.5	121.	0.3294	0.3564	0.16
244	126.	121.5	0.3279	0.3549	0.1593
245	126.5	122.	0.3254	0.3524	0.1582
246	127.	122.5	0.3255	0.3525	0.1582
247	127.5	123.	0.3277	0.3547	0.1592
248	128.	123.5	0.3212	0.3482	0.1563
249	128.5	124.	0.3264	0.3534	0.1586
250	129.	124.5	0.3199	0.3469	0.1557
251	129.5	125.	0.3215	0.3485	0.1564
252	130.	125.5	0.3212	0.3482	0.1563
253	130.5	126.	0.321	0.348	0.1562
254	131.	126.5	0.3224	0.3494	0.1568
255	131.5	127.	0.3193	0.3463	0.1554
256	132.	127.5	0.32	0.347	0.1558
257	132.5	128.	0.3174	0.3444	0.1546
258	133.	128.5	0.3199	0.3469	0.1557
259	133.5	129.	0.3163	0.3433	0.1541
260	134.	129.5	0.3154	0.3424	0.1537
261	134.5	130.	0.3101	0.3371	0.1513

262	135.	130.5	0.3089	0.3359	0.1508
263	135.5	131.	0.308	0.335	0.1504
264	136.	131.5	0.3088	0.3358	0.1507
265	136.5	132.	0.3023	0.3293	0.1478
266	137.	132.5	0.3137	0.3407	0.1529
267	137.5	133.	0.3028	0.3298	0.148
268	138.	133.5	0.3038	0.3308	0.1485
269	138.5	134.	0.3082	0.3352	0.1505
270	139.	134.5	0.3072	0.3342	0.15
271	139.5	135.	0.3121	0.3391	0.1522
272	140.	135.5	0.307	0.334	0.1499
273	140.5	136.	0.307	0.334	0.1499
274	141.	136.5	0.3068	0.3338	0.1498
275	141.5	137.	0.3026	0.3296	0.148
276	142.	137.5	0.305	0.332	0.149
277	142.5	138.	0.3044	0.3314	0.1488
278	143.	138.5	0.3055	0.3325	0.1493
279	143.5	139.	0.3024	0.3294	0.1479
280	144.	139.5	0.3052	0.3322	0.1491
281	144.5	140.	0.303	0.33	0.1481
282	145.	140.5	0.3012	0.3282	0.1473
283	145.5	141.	0.3034	0.3304	0.1483
284	146.	141.5	0.2973	0.3243	0.1456
285	146.5	142.	0.3005	0.3275	0.147
286	147.	142.5	0.2956	0.3226	0.1448
287	147.5	143.	0.2937	0.3207	0.144
288	148.	143.5	0.2928	0.3198	0.1436
289	148.5	144.	0.2913	0.3183	0.1429
290	149.	144.5	0.2944	0.3214	0.1443
291	149.5	145.	0.2922	0.3192	0.1433
292	150.	145.5	0.2932	0.3202	0.1437
293	150.5	146.	0.2884	0.3154	0.1416
294	151.	146.5	0.2904	0.3174	0.1425
295	151.5	147.	0.2908	0.3178	0.1427
296	152.	147.5	0.2952	0.3222	0.1446
297	152.5	148.	0.2935	0.3205	0.1439
298	153.	148.5	0.2928	0.3198	0.1436
299	153.5	149.	0.29	0.317	0.1423
300	154.	149.5	0.2904	0.3174	0.1425
301	154.5	150.	0.288	0.315	0.1414
302	155.	150.5	0.2892	0.3162	0.1419
303	155.5	151.	0.287	0.314	0.1409
304	156.	151.5	0.2854	0.3124	0.1402
305	156.5	152.	0.2832	0.3102	0.1392
306	157.	152.5	0.2832	0.3102	0.1392
307	157.5	153.	0.2819	0.3089	0.1387
308	158.	153.5	0.2852	0.3122	0.1401
309	158.5	154.	0.2858	0.3128	0.1404
310	159.	154.5	0.2738	0.3008	0.135
311	159.5	155.	0.2793	0.3063	0.1375
312	160.	155.5	0.2753	0.3023	0.1357
313	160.5	156.	0.2754	0.3024	0.1357
314	161.	156.5	0.2783	0.3053	0.137
315	161.5	157.	0.2777	0.3047	0.1368
316	162.	157.5	0.28	0.307	0.1378
317	162.5	158.	0.2753	0.3023	0.1357
318	163.	158.5	0.2718	0.2988	0.1341

319	163.5	159.	0.2721	0.2991	0.1343
320	164.	159.5	0.2733	0.3003	0.1348
321	164.5	160.	0.2771	0.3041	0.1365
322	165.	160.5	0.2761	0.3031	0.1361
323	165.5	161.	0.2726	0.2996	0.1345
324	166.	161.5	0.2766	0.3036	0.1363
325	166.5	162.	0.2771	0.3041	0.1365
326	167.	162.5	0.2784	0.3054	0.1371
327	167.5	163.	0.271	0.298	0.1338
328	168.	163.5	0.2711	0.2981	0.1338
329	168.5	164.	0.2756	0.3026	0.1358
330	169.	164.5	0.2781	0.3051	0.137
331	169.5	165.	0.2714	0.2984	0.1339
332	170.	165.5	0.2633	0.2903	0.1303
333	170.5	166.	0.2678	0.2948	0.1323
334	171.	166.5	0.263	0.29	0.1302
335	171.5	167.	0.2685	0.2955	0.1326
336	172.	167.5	0.2648	0.2918	0.131
337	172.5	168.	0.2679	0.2949	0.1324
338	173.	168.5	0.2651	0.2921	0.1311
339	173.5	169.	0.2689	0.2959	0.1328
340	174.	169.5	0.26	0.287	0.1288
341	174.5	170.	0.2689	0.2959	0.1328
342	175.	170.5	0.2635	0.2905	0.1304
343	175.5	171.	0.2573	0.2843	0.1276
344	176.	171.5	0.2527	0.2797	0.1256
345	176.5	172.	0.2573	0.2843	0.1276
346	177.	172.5	0.2564	0.2834	0.1272
347	177.5	173.	0.2551	0.2821	0.1266
348	178.	173.5	0.2652	0.2922	0.1312
349	178.5	174.	0.2629	0.2899	0.1301
350	179.	174.5	0.2625	0.2895	0.13
351	179.5	175.	0.2614	0.2884	0.1295
352	180.	175.5	0.263	0.29	0.1302
353	180.5	176.	0.26	0.287	0.1288
354	181.	176.5	0.2583	0.2853	0.1281
355	181.5	177.	0.25	0.277	0.1243
356	182.	177.5	0.2575	0.2845	0.1277
357	182.5	178.	0.2584	0.2854	0.1281
358	183.	178.5	0.2556	0.2826	0.1269
359	183.5	179.	0.2579	0.2849	0.1279
360	184.	179.5	0.2579	0.2849	0.1279
361	184.5	180.	0.2499	0.2769	0.1243
362	185.	180.5	0.2485	0.2755	0.1237
363	185.5	181.	0.2483	0.2753	0.1236
364	186.	181.5	0.2563	0.2833	0.1272
365	186.5	182.	0.2548	0.2818	0.1265
366	187.	182.5	0.2469	0.2739	0.123
367	187.5	183.	0.2445	0.2715	0.1219
368	188.	183.5	0.2476	0.2746	0.1233
369	188.5	184.	0.2511	0.2781	0.1248
370	189.	184.5	0.2512	0.2782	0.1249
371	189.5	185.	0.2487	0.2757	0.1238
372	190.	185.5	0.2498	0.2768	0.1243
373	190.5	186.	0.2488	0.2758	0.1238
374	191.	186.5	0.2459	0.2729	0.1225
375	191.5	187.	0.2443	0.2713	0.1218

376	192.	187.5	0.2422	0.2692	0.1208
377	192.5	188.	0.2516	0.2786	0.1251
378	193.	188.5	0.2416	0.2686	0.1206
379	193.5	189.	0.2424	0.2694	0.1209
380	194.	189.5	0.2421	0.2691	0.1208
381	194.5	190.	0.2472	0.2742	0.1231
382	195.	190.5	0.2391	0.2661	0.1195
383	195.5	191.	0.2435	0.2705	0.1214
384	196.	191.5	0.2408	0.2678	0.1202
385	196.5	192.	0.244	0.271	0.1216
386	197.	192.5	0.2453	0.2723	0.1222
387	197.5	193.	0.2372	0.2642	0.1186
388	198.	193.5	0.239	0.266	0.1194
389	198.5	194.	0.2374	0.2644	0.1187
390	199.	194.5	0.2342	0.2612	0.1173
391	199.5	195.	0.2414	0.2684	0.1205
392	200.	195.5	0.2334	0.2604	0.1169
393	200.5	196.	0.2325	0.2595	0.1165
394	201.	196.5	0.2408	0.2678	0.1202
395	201.5	197.	0.2377	0.2647	0.1188
396	202.	197.5	0.2343	0.2613	0.1173
397	202.5	198.	0.2399	0.2669	0.1198
398	203.	198.5	0.2377	0.2647	0.1188
399	203.5	199.	0.2377	0.2647	0.1188
400	204.	199.5	0.2396	0.2666	0.1197
401	204.5	200.	0.2315	0.2585	0.116
402	205.	200.5	0.2288	0.2558	0.1148
403	205.5	201.	0.23	0.257	0.1154
404	206.	201.5	0.2334	0.2604	0.1169
405	206.5	202.	0.2333	0.2603	0.1168
406	207.	202.5	0.233	0.26	0.1167
407	207.5	203.	0.2302	0.2572	0.1155
408	208.	203.5	0.2279	0.2549	0.1144
409	208.5	204.	0.2339	0.2609	0.1171
410	209.	204.5	0.2324	0.2594	0.1164
411	209.5	205.	0.2234	0.2504	0.1124
412	210.	205.5	0.2267	0.2537	0.1139
413	210.5	206.	0.2256	0.2526	0.1134
414	211.	206.5	0.2302	0.2572	0.1155
415	211.5	207.	0.2299	0.2569	0.1153
416	212.	207.5	0.2311	0.2581	0.1159
417	212.5	208.	0.23	0.257	0.1154
418	213.	208.5	0.2235	0.2505	0.1124
419	213.5	209.	0.2319	0.2589	0.1162
420	214.	209.5	0.2267	0.2537	0.1139
421	214.5	210.	0.2318	0.2588	0.1162
422	215.	210.5	0.2257	0.2527	0.1134
423	215.5	211.	0.2206	0.2476	0.1111
424	216.	211.5	0.2187	0.2457	0.1103
425	216.5	212.	0.223	0.25	0.1122
426	217.	212.5	0.2225	0.2495	0.112
427	217.5	213.	0.2255	0.2525	0.1133
428	218.	213.5	0.2242	0.2512	0.1128
429	218.5	214.	0.22	0.247	0.1109
430	219.	214.5	0.2236	0.2506	0.1125
431	219.5	215.	0.2168	0.2438	0.1094
432	220.	215.5	0.2203	0.2473	0.111

433	220.5	216.	0.2152	0.2422	0.1087
434	221.	216.5	0.2135	0.2405	0.108
435	221.5	217.	0.2213	0.2483	0.1115
436	222.	217.5	0.2206	0.2476	0.1111
437	222.5	218.	0.214	0.241	0.1082
438	223.	218.5	0.2143	0.2413	0.1083
439	223.5	219.	0.2181	0.2451	0.11
440	224.	219.5	0.2134	0.2404	0.1079
441	224.5	220.	0.2191	0.2461	0.1105
442	225.	220.5	0.2161	0.2431	0.1091
443	225.5	221.	0.2102	0.2372	0.1065
444	226.	221.5	0.2112	0.2382	0.1069
445	226.5	222.	0.2164	0.2434	0.1093
446	227.	222.5	0.2146	0.2416	0.1085
447	227.5	223.	0.2184	0.2454	0.1102
448	228.	223.5	0.2167	0.2437	0.1094
449	228.5	224.	0.2127	0.2397	0.1076
450	229.	224.5	0.2076	0.2346	0.1053
451	229.5	225.	0.2104	0.2374	0.1066
452	230.	225.5	0.2113	0.2383	0.107
453	230.5	226.	0.2118	0.2388	0.1072
454	231.	226.5	0.2065	0.2335	0.1048
455	231.5	227.	0.2122	0.2392	0.1074
456	232.	227.5	0.2071	0.2341	0.1051
457	232.5	228.	0.2193	0.2463	0.1106
458	233.	228.5	0.2104	0.2374	0.1066
459	233.5	229.	0.2083	0.2353	0.1056
460	234.	229.5	0.2094	0.2364	0.1061
461	234.5	230.	0.2124	0.2394	0.1075
462	235.	230.5	0.21	0.237	0.1064
463	235.5	231.	0.2097	0.2367	0.1063
464	236.	231.5	0.2099	0.2369	0.1063
465	236.5	232.	0.2092	0.2362	0.106
466	237.	232.5	0.211	0.238	0.1068
467	237.5	233.	0.2061	0.2331	0.1046
468	238.	233.5	0.2025	0.2295	0.103
469	238.5	234.	0.208	0.235	0.1055
470	239.	234.5	0.2113	0.2383	0.107
471	239.5	235.	0.2013	0.2283	0.1025
472	240.	235.5	0.2085	0.2355	0.1057
473	240.5	236.	0.209	0.236	0.1059
474	241.	236.5	0.2035	0.2305	0.1035
475	241.5	237.	0.2021	0.2291	0.1028
476	242.	237.5	0.2028	0.2298	0.1032
477	242.5	238.	0.2009	0.2279	0.1023
478	243.	238.5	0.201	0.228	0.1024
479	243.5	239.	0.2017	0.2287	0.1027
480	244.	239.5	0.2012	0.2282	0.1024
481	244.5	240.	0.2003	0.2273	0.102
482	245.	240.5	0.2009	0.2279	0.1023
483	245.5	241.	0.1992	0.2262	0.1015
484	246.	241.5	0.2009	0.2279	0.1023
485	246.5	242.	0.198	0.225	0.101
486	247.	242.5	0.2007	0.2277	0.1022
487	247.5	243.	0.2003	0.2273	0.102
488	248.	243.5	0.1991	0.2261	0.1015
489	248.5	244.	0.1989	0.2259	0.1014

490	249.	244.5	0.2013	0.2283	0.1025
491	249.5	245.	0.2009	0.2279	0.1023
492	250.	245.5	0.197	0.224	0.1006
493	250.5	246.	0.2006	0.2276	0.1022
494	251.	246.5	0.1977	0.2247	0.1009
495	251.5	247.	0.1921	0.2191	9.836e-002
496	252.	247.5	0.195	0.222	9.966e-002
497	252.5	248.	0.1935	0.2205	9.898e-002
498	253.	248.5	0.1931	0.2201	9.88e-002
499	253.5	249.	0.1946	0.2216	9.948e-002
500	254.	249.5	0.1928	0.2198	9.867e-002
501	254.5	250.	0.1934	0.2204	9.894e-002
502	255.	250.5	0.1955	0.2225	9.988e-002
503	255.5	251.	0.1919	0.2189	9.827e-002
504	256.	251.5	0.19	0.217	9.741e-002
505	256.5	252.	0.1937	0.2207	9.907e-002
506	257.	252.5	0.1916	0.2186	9.813e-002
507	257.5	253.	0.1928	0.2198	9.867e-002
508	258.	253.5	0.191	0.218	9.786e-002
509	258.5	254.	0.1888	0.2158	9.687e-002
510	259.	254.5	0.1877	0.2147	9.638e-002
511	259.5	255.	0.1877	0.2147	9.638e-002
512	260.	255.5	0.1865	0.2135	9.584e-002
513	260.5	256.	0.19	0.217	9.741e-002
514	261.	256.5	0.1886	0.2156	9.678e-002
515	261.5	257.	0.1798	0.2068	9.283e-002
516	262.	257.5	0.1955	0.2225	9.988e-002
517	262.5	258.	0.1868	0.2138	9.598e-002
518	263.	258.5	0.1895	0.2165	9.719e-002
519	263.5	259.	0.1871	0.2141	9.611e-002
520	264.	259.5	0.1835	0.2105	9.45e-002
521	264.5	260.	0.1882	0.2152	9.661e-002
522	265.	260.5	0.1872	0.2142	9.616e-002
523	265.5	261.	0.1807	0.2077	9.324e-002
524	266.	261.5	0.1855	0.2125	9.539e-002
525	266.5	262.	0.1841	0.2111	9.476e-002
526	267.	262.5	0.1855	0.2125	9.539e-002
527	267.5	263.	0.1871	0.2141	9.611e-002
528	268.	263.5	0.1854	0.2124	9.535e-002
529	268.5	264.	0.1841	0.2111	9.476e-002
530	269.	264.5	0.182	0.209	9.382e-002
531	269.5	265.	0.1814	0.2084	9.355e-002
532	270.	265.5	0.1831	0.2101	9.432e-002
533	270.5	266.	0.1814	0.2084	9.355e-002
534	271.	266.5	0.1831	0.2101	9.432e-002
535	271.5	267.	0.1786	0.2056	9.23e-002
536	272.	267.5	0.1775	0.2045	9.18e-002
537	272.5	268.	0.1813	0.2083	9.351e-002
538	273.	268.5	0.1795	0.2065	9.27e-002
539	273.5	269.	0.1802	0.2072	9.301e-002
540	274.	269.5	0.1822	0.2092	9.391e-002
541	274.5	270.	0.1809	0.2079	9.333e-002
542	275.	270.5	0.1774	0.2044	9.176e-002
543	275.5	271.	0.1783	0.2053	9.216e-002
544	276.	271.5	0.1783	0.2053	9.216e-002
545	276.5	272.	0.1743	0.2013	9.037e-002
546	277.	272.5	0.169	0.196	8.799e-002

547	277.5	273.	0.1729	0.1999	8.974e-002
548	278.	273.5	0.178	0.205	9.203e-002
549	278.5	274.	0.1761	0.2031	9.117e-002
550	279.	274.5	0.1741	0.2011	9.028e-002
551	279.5	275.	0.1738	0.2008	9.014e-002
552	280.	275.5	0.1738	0.2008	9.014e-002
553	280.5	276.	0.1759	0.2029	9.108e-002
554	281.	276.5	0.1735	0.2005	9.001e-002
555	281.5	277.	0.174	0.201	9.023e-002
556	282.	277.5	0.1747	0.2017	9.055e-002
557	282.5	278.	0.1717	0.1987	8.92e-002
558	283.	278.5	0.1733	0.2003	8.992e-002
559	283.5	279.	0.1695	0.1965	8.821e-002
560	284.	279.5	0.172	0.199	8.933e-002
561	284.5	280.	0.1729	0.1999	8.974e-002
562	285.	280.5	0.1718	0.1988	8.924e-002
563	285.5	281.	0.1717	0.1987	8.92e-002
564	286.	281.5	0.175	0.202	9.068e-002
565	286.5	282.	0.1717	0.1987	8.92e-002
566	287.	282.5	0.1708	0.1978	8.88e-002
567	287.5	283.	0.1689	0.1959	8.794e-002
568	288.	283.5	0.1693	0.1963	8.812e-002
569	288.5	284.	0.1731	0.2001	8.983e-002
570	289.	284.5	0.1698	0.1968	8.835e-002
571	289.5	285.	0.1692	0.1962	8.808e-002
572	290.	285.5	0.1663	0.1933	8.678e-002
573	290.5	286.	0.1695	0.1965	8.821e-002
574	291.	286.5	0.1661	0.1931	8.669e-002
575	291.5	287.	0.1683	0.1953	8.767e-002
576	292.	287.5	0.168	0.195	8.754e-002
577	292.5	288.	0.1667	0.1937	8.696e-002
578	293.	288.5	0.1663	0.1933	8.678e-002
579	293.5	289.	0.1669	0.1939	8.705e-002
580	294.	289.5	0.1661	0.1931	8.669e-002
581	294.5	290.	0.1643	0.1913	8.588e-002
582	295.	290.5	0.1675	0.1945	8.731e-002
583	295.5	291.	0.1686	0.1956	8.781e-002
584	296.	291.5	0.1654	0.1924	8.637e-002
585	296.5	292.	0.1674	0.1944	8.727e-002
586	297.	292.5	0.1672	0.1942	8.718e-002
587	297.5	293.	0.1662	0.1932	8.673e-002
588	298.	293.5	0.1622	0.1892	8.494e-002
589	298.5	294.	0.162	0.189	8.485e-002
590	299.	294.5	0.1662	0.1932	8.673e-002
591	299.5	295.	0.1616	0.1886	8.467e-002
592	300.	295.5	0.165	0.192	8.619e-002
593	300.5	296.	0.1689	0.1959	8.794e-002
594	301.	296.5	0.1669	0.1939	8.705e-002
595	301.5	297.	0.1607	0.1877	8.426e-002
596	302.	297.5	0.1633	0.1903	8.543e-002
597	302.5	298.	0.1629	0.1899	8.525e-002
598	303.	298.5	0.1645	0.1915	8.597e-002
599	303.5	299.	0.1602	0.1872	8.404e-002
600	304.	299.5	0.1572	0.1842	8.269e-002
601	304.5	300.	0.1601	0.1871	8.399e-002
602	305.	300.5	0.1614	0.1884	8.458e-002
603	305.5	301.	0.1601	0.1871	8.399e-002

604	306.	301.5	0.159	0.186	8.35e-002
605	306.5	302.	0.1598	0.1868	8.386e-002
606	307.	302.5	0.1586	0.1856	8.332e-002
607	307.5	303.	0.1582	0.1852	8.314e-002
608	308.	303.5	0.1611	0.1881	8.444e-002
609	308.5	304.	0.1607	0.1877	8.426e-002
610	309.	304.5	0.1586	0.1856	8.332e-002
611	309.5	305.	0.1584	0.1854	8.323e-002
612	310.	305.5	0.1582	0.1852	8.314e-002
613	310.5	306.	0.1569	0.1839	8.256e-002
614	311.	306.5	0.1582	0.1852	8.314e-002
615	311.5	307.	0.1581	0.1851	8.31e-002
616	312.	307.5	0.1565	0.1835	8.238e-002
617	312.5	308.	0.158	0.185	8.305e-002
618	313.	308.5	0.1559	0.1829	8.211e-002
619	313.5	309.	0.1565	0.1835	8.238e-002
620	314.	309.5	0.1566	0.1836	8.242e-002
621	314.5	310.	0.1554	0.1824	8.188e-002
622	315.	310.5	0.1504	0.1774	7.964e-002
623	315.5	311.	0.1581	0.1851	8.31e-002
624	316.	311.5	0.1566	0.1836	8.242e-002
625	316.5	312.	0.1541	0.1811	8.13e-002
626	317.	312.5	0.1541	0.1811	8.13e-002
627	317.5	313.	0.1531	0.1801	8.085e-002
628	318.	313.5	0.1539	0.1809	8.121e-002
629	318.5	314.	0.1545	0.1815	8.148e-002
630	319.	314.5	0.1589	0.1859	8.345e-002
631	319.5	315.	0.1526	0.1796	8.063e-002
632	320.	315.5	0.1556	0.1826	8.197e-002
633	320.5	316.	0.1527	0.1797	8.067e-002
634	321.	316.5	0.155	0.182	8.17e-002
635	321.5	317.	0.1501	0.1771	7.95e-002
636	322.	317.5	0.1513	0.1783	8.004e-002
637	322.5	318.	0.1499	0.1769	7.942e-002
638	323.	318.5	0.1501	0.1771	7.95e-002
639	323.5	319.	0.1523	0.1793	8.049e-002
640	324.	319.5	0.1545	0.1815	8.148e-002
641	324.5	320.	0.1508	0.1778	7.982e-002
642	325.	320.5	0.1502	0.1772	7.955e-002
643	325.5	321.	0.1482	0.1752	7.865e-002
644	326.	321.5	0.1516	0.1786	8.018e-002
645	326.5	322.	0.1538	0.1808	8.117e-002
646	327.	322.5	0.1473	0.1743	7.825e-002
647	327.5	323.	0.1477	0.1747	7.843e-002
648	328.	323.5	0.1482	0.1752	7.865e-002
649	328.5	324.	0.1496	0.1766	7.928e-002
650	329.	324.5	0.1478	0.1748	7.847e-002
651	329.5	325.	0.1495	0.1765	7.924e-002
652	330.	325.5	0.148	0.175	7.856e-002
653	330.5	326.	0.1477	0.1747	7.843e-002
654	331.	326.5	0.1462	0.1732	7.775e-002
655	331.5	327.	0.1443	0.1713	7.69e-002
656	332.	327.5	0.1466	0.1736	7.793e-002
657	332.5	328.	0.1465	0.1735	7.789e-002
658	333.	328.5	0.1459	0.1729	7.762e-002
659	333.5	329.	0.1473	0.1743	7.825e-002
660	334.	329.5	0.1459	0.1729	7.762e-002

661	334.5	330.	0.1454	0.1724	7.74e-002
662	335.	330.5	0.1466	0.1736	7.793e-002
663	335.5	331.	0.1467	0.1737	7.798e-002
664	336.	331.5	0.1441	0.1711	7.681e-002
665	336.5	332.	0.1466	0.1736	7.793e-002
666	337.	332.5	0.1443	0.1713	7.69e-002
667	337.5	333.	0.1441	0.1711	7.681e-002
668	338.	333.5	0.145	0.172	7.722e-002
669	338.5	334.	0.1453	0.1723	7.735e-002
670	339.	334.5	0.1443	0.1713	7.69e-002
671	339.5	335.	0.1447	0.1717	7.708e-002
672	340.	335.5	0.143	0.17	7.632e-002
673	340.5	336.	0.1469	0.1739	7.807e-002
674	341.	336.5	0.1387	0.1657	7.439e-002
675	341.5	337.	0.145	0.172	7.722e-002
676	342.	337.5	0.1423	0.1693	7.6e-002
677	342.5	338.	0.1448	0.1718	7.713e-002
678	343.	338.5	0.1406	0.1676	7.524e-002
679	343.5	339.	0.1386	0.1656	7.434e-002
680	344.	339.5	0.1452	0.1722	7.731e-002
681	344.5	340.	0.1396	0.1666	7.479e-002
682	345.	340.5	0.1382	0.1652	7.416e-002
683	345.5	341.	0.1412	0.1682	7.551e-002
684	346.	341.5	0.139	0.166	7.452e-002
685	346.5	342.	0.1409	0.1679	7.538e-002
686	347.	342.5	0.1403	0.1673	7.511e-002
687	347.5	343.	0.1443	0.1713	7.69e-002
688	348.	343.5	0.1415	0.1685	7.564e-002
689	348.5	344.	0.14	0.167	7.497e-002
690	349.	344.5	0.1402	0.1672	7.506e-002
691	349.5	345.	0.1457	0.1727	7.753e-002
692	350.	345.5	0.143	0.17	7.632e-002
693	350.5	346.	0.1373	0.1643	7.376e-002
694	351.	346.5	0.1396	0.1666	7.479e-002
695	351.5	347.	0.1342	0.1612	7.237e-002
696	352.	347.5	0.1375	0.1645	7.385e-002
697	352.5	348.	0.1381	0.1651	7.412e-002
698	353.	348.5	0.14	0.167	7.497e-002
699	353.5	349.	0.1376	0.1646	7.389e-002
700	354.	349.5	0.1379	0.1649	7.403e-002
701	354.5	350.	0.1381	0.1651	7.412e-002
702	355.	350.5	0.1361	0.1631	7.322e-002
703	355.5	351.	0.1361	0.1631	7.322e-002
704	356.	351.5	0.1363	0.1633	7.331e-002
705	356.5	352.	0.1384	0.1654	7.425e-002
706	357.	352.5	0.137	0.164	7.363e-002
707	357.5	353.	0.1348	0.1618	7.264e-002
708	358.	353.5	0.1354	0.1624	7.291e-002
709	358.5	354.	0.1344	0.1614	7.246e-002
710	359.	354.5	0.1384	0.1654	7.425e-002
711	359.5	355.	0.134	0.161	7.228e-002
712	360.	355.5	0.1301	0.1571	7.053e-002
713	360.5	356.	0.1336	0.1606	7.21e-002
714	361.	356.5	0.1378	0.1648	7.398e-002
715	361.5	357.	0.1315	0.1585	7.116e-002
716	362.	357.5	0.1294	0.1564	7.021e-002
717	362.5	358.	0.1314	0.1584	7.111e-002

718	363.	358.5	0.1339	0.1609	7.223e-002
719	363.5	359.	0.1324	0.1594	7.156e-002
720	364.	359.5	0.1276	0.1546	6.941e-002
721	364.5	360.	0.1305	0.1575	7.071e-002
722	365.	360.5	0.1356	0.1626	7.3e-002
723	365.5	361.	0.1296	0.1566	7.03e-002
724	366.	361.5	0.131	0.158	7.093e-002
725	366.5	362.	0.1336	0.1606	7.21e-002
726	367.	362.5	0.1317	0.1587	7.125e-002
727	367.5	363.	0.1358	0.1628	7.309e-002
728	368.	363.5	0.1326	0.1596	7.165e-002
729	368.5	364.	0.1368	0.1638	7.354e-002
730	369.	364.5	0.1299	0.1569	7.044e-002
731	369.5	365.	0.1284	0.1554	6.977e-002
732	370.	365.5	0.1333	0.1603	7.196e-002
733	370.5	366.	0.1339	0.1609	7.223e-002
734	371.	366.5	0.1333	0.1603	7.196e-002
735	371.5	367.	0.1279	0.1549	6.954e-002
736	372.	367.5	0.1272	0.1542	6.923e-002
737	372.5	368.	0.1251	0.1521	6.828e-002
738	373.	368.5	0.1308	0.1578	7.084e-002
739	373.5	369.	0.1272	0.1542	6.923e-002
740	374.	369.5	0.1281	0.1551	6.963e-002
741	374.5	370.	0.1272	0.1542	6.923e-002
742	375.	370.5	0.1281	0.1551	6.963e-002
743	375.5	371.	0.1262	0.1532	6.878e-002
744	376.	371.5	0.1291	0.1561	7.008e-002
745	376.5	372.	0.1276	0.1546	6.941e-002
746	377.	372.5	0.1294	0.1564	7.021e-002
747	377.5	373.	0.1275	0.1545	6.936e-002
748	378.	373.5	0.1262	0.1532	6.878e-002
749	378.5	374.	0.1262	0.1532	6.878e-002
750	379.	374.5	0.1284	0.1554	6.977e-002
751	379.5	375.	0.1272	0.1542	6.923e-002
752	380.	375.5	0.1248	0.1518	6.815e-002
753	380.5	376.	0.1236	0.1506	6.761e-002
754	381.	376.5	0.1236	0.1506	6.761e-002
755	381.5	377.	0.1226	0.1496	6.716e-002
756	382.	377.5	0.1254	0.1524	6.842e-002
757	382.5	378.	0.1239	0.1509	6.775e-002
758	383.	378.5	0.1257	0.1527	6.855e-002
759	383.5	379.	0.1233	0.1503	6.748e-002
760	384.	379.5	0.1234	0.1504	6.752e-002
761	384.5	380.	0.123	0.15	6.734e-002
762	385.	380.5	0.1259	0.1529	6.864e-002
763	385.5	381.	0.1226	0.1496	6.716e-002
764	386.	381.5	0.1255	0.1525	6.846e-002
765	386.5	382.	0.1272	0.1542	6.923e-002
766	387.	382.5	0.1243	0.1513	6.793e-002
767	387.5	383.	0.1231	0.1501	6.739e-002
768	388.	383.5	0.126	0.153	6.869e-002
769	388.5	384.	0.1255	0.1525	6.846e-002
770	389.	384.5	0.1228	0.1498	6.725e-002
771	389.5	385.	0.1203	0.1473	6.613e-002
772	390.	385.5	0.1204	0.1474	6.617e-002
773	390.5	386.	0.1236	0.1506	6.761e-002
774	391.	386.5	0.1219	0.1489	6.685e-002

775	391.5	387.	0.1234	0.1504	6.752e-002
776	392.	387.5	0.1209	0.1479	6.64e-002
777	392.5	388.	0.1185	0.1455	6.532e-002
778	393.	388.5	0.1215	0.1485	6.667e-002
779	393.5	389.	0.1233	0.1503	6.748e-002
780	394.	389.5	0.1234	0.1504	6.752e-002
781	394.5	390.	0.1198	0.1468	6.591e-002
782	395.	390.5	0.119	0.146	6.555e-002
783	395.5	391.	0.1234	0.1504	6.752e-002
784	396.	391.5	0.1221	0.1491	6.694e-002
785	396.5	392.	0.1206	0.1476	6.626e-002
786	397.	392.5	0.1212	0.1482	6.653e-002
787	397.5	393.	0.1228	0.1498	6.725e-002
788	398.	393.5	0.1195	0.1465	6.577e-002
789	398.5	394.	0.1198	0.1468	6.591e-002
790	399.	394.5	0.1167	0.1437	6.451e-002
791	399.5	395.	0.1239	0.1509	6.775e-002
792	400.	395.5	0.1201	0.1471	6.604e-002
793	400.5	396.	0.1167	0.1437	6.451e-002
794	401.	396.5	0.117	0.144	6.465e-002
795	401.5	397.	0.1227	0.1497	6.721e-002
796	402.	397.5	0.1155	0.1425	6.398e-002
797	402.5	398.	0.1179	0.1449	6.505e-002
798	403.	398.5	0.1208	0.1478	6.635e-002
799	403.5	399.	0.1184	0.1454	6.528e-002
800	404.	399.5	0.1171	0.1441	6.469e-002
801	404.5	400.	0.1184	0.1454	6.528e-002
802	405.	400.5	0.1173	0.1443	6.478e-002
803	405.5	401.	0.1193	0.1463	6.568e-002
804	406.	401.5	0.1145	0.1415	6.353e-002
805	406.5	402.	0.1146	0.1416	6.357e-002
806	407.	402.5	0.1214	0.1484	6.662e-002
807	407.5	403.	0.1178	0.1448	6.501e-002
808	408.	403.5	0.1167	0.1437	6.451e-002
809	408.5	404.	0.1143	0.1413	6.344e-002
810	409.	404.5	0.1178	0.1448	6.501e-002
811	409.5	405.	0.1151	0.1421	6.38e-002
812	410.	405.5	0.1134	0.1404	6.303e-002
813	410.5	406.	0.1164	0.1434	6.438e-002
814	411.	406.5	0.1128	0.1398	6.276e-002
815	411.5	407.	0.1142	0.1412	6.339e-002
816	412.	407.5	0.1149	0.1419	6.371e-002
817	412.5	408.	0.1116	0.1386	6.223e-002
818	413.	408.5	0.1155	0.1425	6.398e-002
819	413.5	409.	0.1124	0.1394	6.258e-002
820	414.	409.5	0.1134	0.1404	6.303e-002
821	414.5	410.	0.1134	0.1404	6.303e-002
822	415.	410.5	0.1167	0.1437	6.451e-002
823	415.5	411.	0.1106	0.1376	6.178e-002
824	416.	411.5	0.1101	0.1371	6.155e-002
825	416.5	412.	0.1122	0.1392	6.249e-002
826	417.	412.5	0.1126	0.1396	6.267e-002
827	417.5	413.	0.1137	0.1407	6.317e-002
828	418.	413.5	0.1086	0.1356	6.088e-002
829	418.5	414.	0.1103	0.1373	6.164e-002
830	419.	414.5	0.1131	0.1401	6.29e-002
831	419.5	415.	0.1115	0.1385	6.218e-002

832	420.	415.5	0.1103	0.1373	6.164e-002
833	420.5	416.	0.1086	0.1356	6.088e-002
834	421.	416.5	0.1113	0.1383	6.209e-002
835	421.5	417.	0.1097	0.1367	6.137e-002
836	422.	417.5	0.1126	0.1396	6.267e-002
837	422.5	418.	0.1113	0.1383	6.209e-002
838	423.	418.5	0.1086	0.1356	6.088e-002
839	423.5	419.	0.1074	0.1344	6.034e-002
840	424.	419.5	0.1103	0.1373	6.164e-002
841	424.5	420.	0.1118	0.1388	6.231e-002
842	425.	420.5	0.1091	0.1361	6.11e-002
843	425.5	421.	0.1091	0.1361	6.11e-002
844	426.	421.5	0.1065	0.1335	5.994e-002
845	426.5	422.	0.109	0.136	6.106e-002
846	427.	422.5	0.1059	0.1329	5.967e-002
847	427.5	423.	0.1073	0.1343	6.03e-002
848	428.	423.5	0.1088	0.1358	6.097e-002
849	428.5	424.	0.111	0.138	6.196e-002
850	429.	424.5	0.1063	0.1333	5.985e-002
851	429.5	425.	0.1046	0.1316	5.908e-002
852	430.	425.5	0.109	0.136	6.106e-002
853	430.5	426.	0.1074	0.1344	6.034e-002
854	431.	426.5	0.1027	0.1297	5.823e-002
855	431.5	427.	0.1092	0.1362	6.115e-002
856	432.	427.5	0.1027	0.1297	5.823e-002
857	432.5	428.	0.105	0.132	5.926e-002
858	433.	428.5	0.1061	0.1331	5.976e-002
859	433.5	429.	0.1061	0.1331	5.976e-002
860	434.	429.5	0.1058	0.1328	5.962e-002
861	434.5	430.	0.1081	0.1351	6.065e-002
862	435.	430.5	0.104	0.131	5.881e-002
863	435.5	431.	0.1034	0.1304	5.854e-002
864	436.	431.5	0.1061	0.1331	5.976e-002
865	436.5	432.	0.1065	0.1335	5.994e-002
866	437.	432.5	0.1069	0.1339	6.012e-002
867	437.5	433.	0.1046	0.1316	5.908e-002
868	438.	433.5	0.1054	0.1324	5.944e-002
869	438.5	434.	0.1012	0.1282	5.756e-002
870	439.	434.5	0.1073	0.1343	6.03e-002
871	439.5	435.	0.1027	0.1297	5.823e-002
872	440.	435.5	0.1079	0.1349	6.056e-002
873	440.5	436.	0.1059	0.1329	5.967e-002
874	441.	436.5	0.1073	0.1343	6.03e-002
875	441.5	437.	0.1039	0.1309	5.877e-002
876	442.	437.5	0.1047	0.1317	5.913e-002
877	442.5	438.	0.1056	0.1326	5.953e-002
878	443.	438.5	0.1042	0.1312	5.89e-002
879	443.5	439.	0.1036	0.1306	5.863e-002
880	444.	439.5	9.848e-002	0.1255	5.634e-002
881	444.5	440.	0.1021	0.1291	5.796e-002
882	445.	440.5	0.103	0.13	5.837e-002
883	445.5	441.	0.1022	0.1292	5.801e-002
884	446.	441.5	9.995e-002	0.127	5.7e-002
885	446.5	442.	0.101	0.128	5.747e-002
886	447.	442.5	0.1027	0.1297	5.823e-002
887	447.5	443.	0.1023	0.1293	5.805e-002
888	448.	443.5	0.1039	0.1309	5.877e-002

889	448.5	444.	9.94e-002	0.1264	5.675e-002
890	449.	444.5	0.1013	0.1283	5.76e-002
891	449.5	445.	0.101	0.128	5.747e-002
892	450.	445.5	0.104	0.131	5.881e-002
893	450.5	446.	0.1031	0.1301	5.841e-002
894	451.	446.5	0.1022	0.1292	5.801e-002
895	451.5	447.	9.848e-002	0.1255	5.634e-002
896	452.	447.5	0.1032	0.1302	5.845e-002
897	452.5	448.	0.1028	0.1298	5.828e-002
898	453.	448.5	0.1021	0.1291	5.796e-002
899	453.5	449.	9.744e-002	0.1245	5.587e-002
900	454.	449.5	9.896e-002	0.126	5.655e-002
901	454.5	450.	9.908e-002	0.1261	5.661e-002
902	455.	450.5	0.1004	0.1274	5.72e-002
903	455.5	451.	9.698e-002	0.124	5.566e-002
904	456.	451.5	0.1007	0.1277	5.733e-002
905	456.5	452.	9.896e-002	0.126	5.655e-002
906	457.	452.5	9.789e-002	0.1249	5.607e-002
907	457.5	453.	9.502e-002	0.1221	5.478e-002
908	458.	453.5	0.1001	0.1271	5.706e-002
909	458.5	454.	0.1017	0.1287	5.778e-002
910	459.	454.5	9.756e-002	0.1246	5.592e-002
911	459.5	455.	0.1012	0.1282	5.756e-002
912	460.	455.5	0.1046	0.1316	5.908e-002
913	460.5	456.	9.486e-002	0.1219	5.471e-002
914	461.	456.5	9.355e-002	0.1206	5.412e-002
915	461.5	457.	9.863e-002	0.1257	5.64e-002
916	462.	457.5	9.638e-002	0.1234	5.539e-002
917	462.5	458.	9.817e-002	0.1252	5.62e-002
918	463.	458.5	9.817e-002	0.1252	5.62e-002
919	463.5	459.	9.653e-002	0.1236	5.546e-002
920	464.	459.5	9.685e-002	0.1239	5.56e-002
921	464.5	460.	9.653e-002	0.1236	5.546e-002
922	465.	460.5	9.951e-002	0.1266	5.68e-002
923	465.5	461.	9.486e-002	0.1219	5.471e-002
924	466.	461.5	9.402e-002	0.1211	5.433e-002
925	466.5	462.	9.594e-002	0.123	5.52e-002
926	467.	462.5	9.863e-002	0.1257	5.64e-002
927	467.5	463.	9.562e-002	0.1227	5.505e-002
928	468.	463.5	9.381e-002	0.1209	5.424e-002
929	468.5	464.	9.624e-002	0.1233	5.533e-002
930	469.	464.5	9.727e-002	0.1243	5.579e-002
931	469.5	465.	9.264e-002	0.1197	5.372e-002
932	470.	465.5	9.219e-002	0.1192	5.351e-002
933	470.5	466.	9.594e-002	0.123	5.52e-002
934	471.	466.5	9.502e-002	0.1221	5.478e-002
935	471.5	467.	9.355e-002	0.1206	5.412e-002
936	472.	467.5	9.381e-002	0.1209	5.424e-002
937	472.5	468.	9.264e-002	0.1197	5.372e-002
938	473.	468.5	9.176e-002	0.1188	5.332e-002
939	473.5	469.	9.519e-002	0.1222	5.486e-002
940	474.	469.5	9.086e-002	0.1179	5.292e-002
941	474.5	470.	9.162e-002	0.1187	5.326e-002
942	475.	470.5	9.685e-002	0.1239	5.56e-002
943	475.5	471.	9.416e-002	0.1212	5.44e-002
944	476.	471.5	9.249e-002	0.1195	5.365e-002
945	476.5	472.	9.219e-002	0.1192	5.351e-002

946	477.	472.5	9.205e-002	0.1191	5.345e-002
947	477.5	473.	9.1e-002	0.118	5.298e-002
948	478.	473.5	9.132e-002	0.1184	5.312e-002
949	478.5	474.	9.34e-002	0.1204	5.406e-002
950	479.	474.5	9.502e-002	0.1221	5.478e-002
951	479.5	475.	9.072e-002	0.1178	5.285e-002
952	480.	475.5	8.814e-002	0.1152	5.17e-002
953	480.5	476.	9.176e-002	0.1188	5.332e-002
954	481.	476.5	9.233e-002	0.1194	5.358e-002
955	481.5	477.	8.877e-002	0.1158	5.198e-002
956	482.	477.5	9.009e-002	0.1171	5.257e-002
957	482.5	478.	9.47e-002	0.1217	5.464e-002
958	483.	478.5	9.325e-002	0.1203	5.399e-002
959	483.5	479.	9.144e-002	0.1185	5.318e-002
960	484.	479.5	9.249e-002	0.1195	5.365e-002
961	484.5	480.	9.47e-002	0.1217	5.464e-002
962	485.	480.5	8.682e-002	0.1139	5.11e-002
963	485.5	481.	9.296e-002	0.12	5.386e-002
964	486.	481.5	9.086e-002	0.1179	5.292e-002
965	486.5	482.	9.355e-002	0.1206	5.412e-002
966	487.	482.5	9.162e-002	0.1187	5.326e-002
967	487.5	483.	9.486e-002	0.1219	5.471e-002
968	488.	483.5	9.296e-002	0.12	5.386e-002
969	488.5	484.	9.144e-002	0.1185	5.318e-002
970	489.	484.5	8.92e-002	0.1162	5.217e-002
971	489.5	485.	9.052e-002	0.1176	5.276e-002
972	490.	485.5	9.072e-002	0.1178	5.285e-002
973	490.5	486.	9.162e-002	0.1187	5.326e-002
974	491.	486.5	8.831e-002	0.1153	5.177e-002
975	491.5	487.	8.848e-002	0.1155	5.185e-002
976	492.	487.5	9.219e-002	0.1192	5.351e-002
977	492.5	488.	8.787e-002	0.1149	5.157e-002
978	493.	488.5	8.636e-002	0.1134	5.09e-002
979	493.5	489.	8.682e-002	0.1139	5.11e-002
980	494.	489.5	8.848e-002	0.1155	5.185e-002
981	494.5	490.	8.831e-002	0.1153	5.177e-002
982	495.	490.5	9.144e-002	0.1185	5.318e-002
983	495.5	491.	8.471e-002	0.1118	5.016e-002
984	496.	491.5	8.563e-002	0.1127	5.057e-002
985	496.5	492.	8.967e-002	0.1167	5.238e-002
986	497.	492.5	8.814e-002	0.1152	5.17e-002
987	497.5	493.	8.609e-002	0.1131	5.078e-002
988	498.	493.5	9.205e-002	0.1191	5.345e-002
989	498.5	494.	8.651e-002	0.1136	5.096e-002
990	499.	494.5	8.848e-002	0.1155	5.185e-002
991	499.5	495.	8.757e-002	0.1146	5.144e-002
992	500.	495.5	8.94e-002	0.1164	5.226e-002
993	500.5	496.	8.622e-002	0.1133	5.083e-002
994	501.	496.5	8.86e-002	0.1156	5.19e-002
995	501.5	497.	8.682e-002	0.1139	5.11e-002
996	502.	497.5	8.458e-002	0.1116	5.01e-002
997	502.5	498.	8.549e-002	0.1125	5.051e-002
998	503.	498.5	8.831e-002	0.1153	5.177e-002
999	503.5	499.	8.353e-002	0.1106	4.963e-002
1000	504.	499.5	8.967e-002	0.1167	5.238e-002
1001	504.5	500.	8.322e-002	0.1103	4.949e-002
1002	505.	500.5	8.967e-002	0.1167	5.238e-002

1003	505.5	501.	8.803e-002	0.1151	5.165e-002
1004	506.	501.5	8.38e-002	0.1108	4.975e-002
1005	506.5	502.	8.31e-002	0.1101	4.943e-002
1006	507.	502.5	8.487e-002	0.1119	5.023e-002
1007	507.5	503.	8.412e-002	0.1112	4.989e-002
1008	508.	503.5	8.2e-002	0.109	4.894e-002
1009	508.5	504.	8.4e-002	0.111	4.984e-002
1010	509.	504.5	8.249e-002	0.1095	4.916e-002
1011	509.5	505.	8.412e-002	0.1112	4.989e-002
1012	510.	505.5	8.071e-002	0.1078	4.836e-002
1013	510.5	506.	8.757e-002	0.1146	5.144e-002
1014	511.	506.5	8.501e-002	0.1121	5.029e-002
1015	511.5	507.	8.444e-002	0.1115	5.004e-002
1016	512.	507.5	8.412e-002	0.1112	4.989e-002
1017	512.5	508.	8.233e-002	0.1094	4.909e-002
1018	513.	508.5	8.293e-002	0.11	4.936e-002
1019	513.5	509.	8.071e-002	0.1078	4.836e-002
1020	514.	509.5	8.427e-002	0.1113	4.996e-002
1021	514.5	510.	8.277e-002	0.1098	4.929e-002
1022	515.	510.5	8.591e-002	0.1129	5.069e-002
1023	515.5	511.	8.563e-002	0.1127	5.057e-002
1024	516.	511.5	8.024e-002	0.1073	4.815e-002
1025	516.5	512.	8.129e-002	0.1083	4.862e-002
1026	517.	512.5	8.367e-002	0.1107	4.969e-002
1027	517.5	513.	7.964e-002	0.1067	4.788e-002
1028	518.	513.5	8.144e-002	0.1085	4.869e-002
1029	518.5	514.	8.519e-002	0.1122	5.037e-002
1030	519.	514.5	8.263e-002	0.1097	4.922e-002
1031	519.5	515.	8.071e-002	0.1078	4.836e-002
1032	520.	515.5	8.249e-002	0.1095	4.916e-002
1033	520.5	516.	8.367e-002	0.1107	4.969e-002
1034	521.	516.5	8.322e-002	0.1103	4.949e-002
1035	521.5	517.	8.144e-002	0.1085	4.869e-002
1036	522.	517.5	8.4e-002	0.111	4.984e-002
1037	522.5	518.	7.949e-002	0.1065	4.781e-002
1038	523.	518.5	8.353e-002	0.1106	4.963e-002
1039	523.5	519.	8.024e-002	0.1073	4.815e-002
1040	524.	519.5	8.01e-002	0.1071	4.809e-002
1041	524.5	520.	8.277e-002	0.1098	4.929e-002
1042	525.	520.5	8.115e-002	0.1082	4.856e-002
1043	525.5	521.	7.754e-002	0.1046	4.694e-002
1044	526.	521.5	7.787e-002	0.1049	4.709e-002
1045	526.5	522.	8.293e-002	0.11	4.936e-002
1046	527.	522.5	8.31e-002	0.1101	4.943e-002
1047	527.5	523.	7.994e-002	0.107	4.802e-002
1048	528.	523.5	8.054e-002	0.1076	4.828e-002
1049	528.5	524.	7.891e-002	0.106	4.755e-002
1050	529.	524.5	7.86e-002	0.1056	4.741e-002
1051	529.5	525.	8.024e-002	0.1073	4.815e-002
1052	530.	525.5	7.92e-002	0.1062	4.768e-002
1053	530.5	526.	8.084e-002	0.1079	4.842e-002
1054	531.	526.5	8.01e-002	0.1071	4.809e-002
1055	531.5	527.	8.054e-002	0.1076	4.828e-002
1056	532.	527.5	8.2e-002	0.109	4.894e-002
1057	532.5	528.	8.099e-002	0.108	4.849e-002
1058	533.	528.5	7.787e-002	0.1049	4.709e-002
1059	533.5	529.	8.367e-002	0.1107	4.969e-002

1060	534.	529.5	7.606e-002	0.1031	4.627e-002
1061	534.5	530.	7.622e-002	0.1033	4.635e-002
1062	535.	530.5	8.024e-002	0.1073	4.815e-002
1063	535.5	531.	8.129e-002	0.1083	4.862e-002
1064	536.	531.5	7.994e-002	0.107	4.802e-002
1065	536.5	532.	7.606e-002	0.1031	4.627e-002
1066	537.	532.5	7.92e-002	0.1062	4.768e-002
1067	537.5	533.	7.574e-002	0.1028	4.613e-002
1068	538.	533.5	7.664e-002	0.1037	4.653e-002
1069	538.5	534.	7.876e-002	0.1058	4.749e-002
1070	539.	534.5	7.86e-002	0.1056	4.741e-002
1071	539.5	535.	7.787e-002	0.1049	4.709e-002
1072	540.	535.5	7.907e-002	0.1061	4.762e-002
1073	540.5	536.	7.698e-002	0.104	4.669e-002
1074	541.	536.5	7.622e-002	0.1033	4.635e-002
1075	541.5	537.	7.397e-002	0.101	4.534e-002
1076	542.	537.5	7.546e-002	0.1025	4.6e-002
1077	542.5	538.	7.787e-002	0.1049	4.709e-002
1078	543.	538.5	7.754e-002	0.1046	4.694e-002
1079	543.5	539.	7.53e-002	0.1023	4.593e-002
1080	544.	539.5	7.501e-002	0.102	4.58e-002
1081	544.5	540.	7.726e-002	0.1043	4.681e-002
1082	545.	540.5	7.622e-002	0.1033	4.635e-002
1083	545.5	541.	7.082e-002	9.786e-002	4.392e-002
1084	546.	541.5	7.829e-002	0.1053	4.727e-002
1085	546.5	542.	7.41e-002	0.1011	4.539e-002
1086	547.	542.5	7.275e-002	9.979e-002	4.479e-002
1087	547.5	543.	7.635e-002	0.1034	4.64e-002
1088	548.	543.5	7.574e-002	0.1028	4.613e-002
1089	548.5	544.	7.74e-002	0.1044	4.688e-002
1090	549.	544.5	8.077e-002	0.1078	4.839e-002
1091	549.5	545.	7.648e-002	0.1035	4.646e-002
1092	550.	545.5	7.546e-002	0.1025	4.6e-002
1093	550.5	546.	7.201e-002	9.905e-002	4.446e-002
1094	551.	546.5	7.23e-002	9.934e-002	4.459e-002
1095	551.5	547.	7.174e-002	9.878e-002	4.433e-002
1096	552.	547.5	7.353e-002	0.1006	4.514e-002
1097	552.5	548.	7.519e-002	0.1022	4.588e-002
1098	553.	548.5	7.846e-002	0.1055	4.735e-002
1099	553.5	549.	7.097e-002	9.801e-002	4.399e-002
1100	554.	549.5	7.441e-002	0.1015	4.553e-002
1101	554.5	550.	7.082e-002	9.786e-002	4.392e-002
1102	555.	550.5	7.275e-002	9.979e-002	4.479e-002
1103	555.5	551.	7.291e-002	9.995e-002	4.486e-002
1104	556.	551.5	7.187e-002	9.891e-002	4.439e-002
1105	556.5	552.	7.275e-002	9.979e-002	4.479e-002
1106	557.	552.5	7.441e-002	0.1015	4.553e-002
1107	557.5	553.	7.16e-002	9.864e-002	4.427e-002
1108	558.	553.5	7.201e-002	9.905e-002	4.446e-002
1109	558.5	554.	7.052e-002	9.756e-002	4.379e-002
1110	559.	554.5	6.992e-002	9.696e-002	4.352e-002
1111	559.5	555.	7.097e-002	9.801e-002	4.399e-002
1112	560.	555.5	7.323e-002	0.1003	4.5e-002
1113	560.5	556.	7.382e-002	0.1009	4.527e-002
1114	561.	556.5	7.353e-002	0.1006	4.514e-002
1115	561.5	557.	7.769e-002	0.1047	4.701e-002
1116	562.	557.5	7.082e-002	9.786e-002	4.392e-002

1117	562.5	558.	7.097e-002	9.801e-002	4.399e-002
1118	563.	558.5	6.868e-002	9.572e-002	4.296e-002
1119	563.5	559.	7.247e-002	9.951e-002	4.466e-002
1120	564.	559.5	7.052e-002	9.756e-002	4.379e-002
1121	564.5	560.	7.247e-002	9.951e-002	4.466e-002
1122	565.	560.5	7.071e-002	9.775e-002	4.387e-002
1123	565.5	561.	7.382e-002	0.1009	4.527e-002
1124	566.	561.5	7.174e-002	9.878e-002	4.433e-002
1125	566.5	562.	6.829e-002	9.533e-002	4.279e-002
1126	567.	562.5	6.769e-002	9.473e-002	4.252e-002
1127	567.5	563.	6.858e-002	9.562e-002	4.292e-002
1128	568.	563.5	6.889e-002	9.593e-002	4.306e-002
1129	568.5	564.	7.01e-002	9.714e-002	4.36e-002
1130	569.	564.5	7.097e-002	9.801e-002	4.399e-002
1131	569.5	565.	7.01e-002	9.714e-002	4.36e-002
1132	570.	565.5	7.187e-002	9.891e-002	4.439e-002
1133	570.5	566.	7.581e-002	0.1029	4.616e-002
1134	571.	566.5	6.695e-002	9.399e-002	4.219e-002
1135	571.5	567.	6.515e-002	9.219e-002	4.138e-002
1136	572.	567.5	7.606e-002	0.1031	4.627e-002
1137	572.5	568.	7.071e-002	9.775e-002	4.387e-002
1138	573.	568.5	7.052e-002	9.756e-002	4.379e-002
1139	573.5	569.	6.677e-002	9.381e-002	4.21e-002
1140	574.	569.5	7.643e-002	0.1035	4.644e-002
1141	574.5	570.	6.948e-002	9.652e-002	4.332e-002
1142	575.	570.5	6.695e-002	9.399e-002	4.219e-002
1143	575.5	571.	6.558e-002	9.262e-002	4.157e-002
1144	576.	571.5	6.904e-002	9.608e-002	4.312e-002
1145	576.5	572.	7.808e-002	0.1051	4.718e-002
1146	577.	572.5	6.635e-002	9.339e-002	4.192e-002
1147	577.5	573.	6.933e-002	9.637e-002	4.325e-002
1148	578.	573.5	6.424e-002	9.128e-002	4.097e-002
1149	578.5	574.	6.712e-002	9.416e-002	4.226e-002
1150	579.	574.5	7.071e-002	9.775e-002	4.387e-002
1151	579.5	575.	6.919e-002	9.623e-002	4.319e-002
1152	580.	575.5	7.16e-002	9.864e-002	4.427e-002
1153	580.5	576.	6.904e-002	9.608e-002	4.312e-002
1154	581.	576.5	6.379e-002	9.083e-002	4.077e-002
1155	581.5	577.	6.59e-002	9.294e-002	4.171e-002
1156	582.	577.5	6.737e-002	9.441e-002	4.237e-002
1157	582.5	578.	6.712e-002	9.416e-002	4.226e-002
1158	583.	578.5	6.829e-002	9.533e-002	4.279e-002
1159	583.5	579.	6.424e-002	9.128e-002	4.097e-002
1160	584.	579.5	6.829e-002	9.533e-002	4.279e-002
1161	584.5	580.	6.661e-002	9.365e-002	4.203e-002
1162	585.	580.5	6.754e-002	9.458e-002	4.245e-002
1163	585.5	581.	7.622e-002	0.1033	4.635e-002
1164	586.	581.5	6.677e-002	9.381e-002	4.21e-002
1165	586.5	582.	6.754e-002	9.458e-002	4.245e-002
1166	587.	582.5	6.607e-002	9.311e-002	4.179e-002
1167	587.5	583.	6.695e-002	9.399e-002	4.219e-002
1168	588.	583.5	6.904e-002	9.608e-002	4.312e-002
1169	588.5	584.	6.813e-002	9.517e-002	4.271e-002
1170	589.	584.5	6.558e-002	9.262e-002	4.157e-002
1171	589.5	585.	6.574e-002	9.278e-002	4.164e-002
1172	590.	585.5	6.635e-002	9.339e-002	4.192e-002
1173	590.5	586.	6.607e-002	9.311e-002	4.179e-002

1174	591.	586.5	6.621e-002	9.325e-002	4.185e-002
1175	591.5	587.	6.47e-002	9.174e-002	4.118e-002
1176	592.	587.5	6.515e-002	9.219e-002	4.138e-002
1177	592.5	588.	6.829e-002	9.533e-002	4.279e-002
1178	593.	588.5	6.303e-002	9.007e-002	4.043e-002
1179	593.5	589.	6.621e-002	9.325e-002	4.185e-002
1180	594.	589.5	6.889e-002	9.593e-002	4.306e-002
1181	594.5	590.	6.156e-002	8.86e-002	3.977e-002
1182	595.	590.5	6.47e-002	9.174e-002	4.118e-002
1183	595.5	591.	6.712e-002	9.416e-002	4.226e-002
1184	596.	591.5	6.515e-002	9.219e-002	4.138e-002
1185	596.5	592.	6.335e-002	9.039e-002	4.057e-002
1186	597.	592.5	6.29e-002	8.994e-002	4.037e-002
1187	597.5	593.	6.172e-002	8.876e-002	3.984e-002
1188	598.	593.5	6.44e-002	9.144e-002	4.104e-002
1189	598.5	594.	7.414e-002	0.1012	4.541e-002
1190	599.	594.5	6.259e-002	8.963e-002	4.023e-002
1191	599.5	595.	6.47e-002	9.174e-002	4.118e-002
1192	600.	595.5	6.398e-002	9.102e-002	4.085e-002
1193	600.5	596.	6.096e-002	8.8e-002	3.95e-002
1194	601.	596.5	6.614e-002	9.318e-002	4.182e-002
1195	601.5	597.	6.408e-002	9.112e-002	4.09e-002
1196	602.	597.5	6.455e-002	9.159e-002	4.111e-002
1197	602.5	598.	6.172e-002	8.876e-002	3.984e-002
1198	603.	598.5	6.607e-002	9.311e-002	4.179e-002
1199	603.5	599.	6.096e-002	8.8e-002	3.95e-002
1200	604.	599.5	7.029e-002	9.733e-002	4.368e-002
1201	604.5	600.	6.558e-002	9.262e-002	4.157e-002
1202	605.	600.5	6.156e-002	8.86e-002	3.977e-002
1203	605.5	601.	6.379e-002	9.083e-002	4.077e-002
1204	606.	601.5	6.484e-002	9.188e-002	4.124e-002
1205	606.5	602.	5.931e-002	8.635e-002	3.876e-002
1206	607.	602.5	6.172e-002	8.876e-002	3.984e-002
1207	607.5	603.	6.215e-002	8.919e-002	4.003e-002
1208	608.	603.5	6.185e-002	8.889e-002	3.99e-002
1209	608.5	604.	6.303e-002	9.007e-002	4.043e-002
1210	609.	604.5	6.829e-002	9.533e-002	4.279e-002
1211	609.5	605.	6.172e-002	8.876e-002	3.984e-002
1212	610.	605.5	6.172e-002	8.876e-002	3.984e-002
1213	610.5	606.	6.207e-002	8.911e-002	3.999e-002
1214	611.	606.5	6.141e-002	8.845e-002	3.97e-002
1215	611.5	607.	6.108e-002	8.812e-002	3.955e-002
1216	612.	607.5	5.813e-002	8.517e-002	3.823e-002
1217	612.5	608.	5.946e-002	8.65e-002	3.882e-002
1218	613.	608.5	5.931e-002	8.635e-002	3.876e-002
1219	613.5	609.	6.259e-002	8.963e-002	4.023e-002
1220	614.	609.5	5.647e-002	8.351e-002	3.748e-002
1221	614.5	610.	5.708e-002	8.412e-002	3.776e-002
1222	615.	610.5	6.05e-002	8.754e-002	3.929e-002
1223	615.5	611.	5.647e-002	8.351e-002	3.748e-002
1224	616.	611.5	6.185e-002	8.889e-002	3.99e-002
1225	616.5	612.	5.781e-002	8.485e-002	3.808e-002
1226	617.	612.5	6.322e-002	9.026e-002	4.051e-002
1227	617.5	613.	6.215e-002	8.919e-002	4.003e-002
1228	618.	613.5	6.231e-002	8.935e-002	4.01e-002
1229	618.5	614.	5.99e-002	8.694e-002	3.902e-002
1230	619.	614.5	5.886e-002	8.59e-002	3.855e-002

1231	619.5	615.	6.322e-002	9.026e-002	4.051e-002
1232	620.	615.5	6.128e-002	8.832e-002	3.964e-002
1233	620.5	616.	5.769e-002	8.473e-002	3.803e-002
1234	621.	616.5	6.05e-002	8.754e-002	3.929e-002
1235	621.5	617.	6.156e-002	8.86e-002	3.977e-002
1236	622.	617.5	5.769e-002	8.473e-002	3.803e-002
1237	622.5	618.	5.527e-002	8.231e-002	3.694e-002
1238	623.	618.5	5.872e-002	8.576e-002	3.849e-002
1239	623.5	619.	5.736e-002	8.44e-002	3.788e-002
1240	624.	619.5	6.178e-002	8.882e-002	3.986e-002
1241	624.5	620.	5.574e-002	8.278e-002	3.715e-002
1242	625.	620.5	5.96e-002	8.664e-002	3.889e-002
1243	625.5	621.	5.647e-002	8.351e-002	3.748e-002
1244	626.	621.5	6.231e-002	8.935e-002	4.01e-002
1245	626.5	622.	5.485e-002	8.189e-002	3.675e-002
1246	627.	622.5	6.432e-002	9.136e-002	4.1e-002
1247	627.5	623.	6.524e-002	9.228e-002	4.142e-002
1248	628.	623.5	5.916e-002	8.62e-002	3.869e-002
1249	628.5	624.	6.172e-002	8.876e-002	3.984e-002
1250	629.	624.5	6.359e-002	9.063e-002	4.068e-002
1251	629.5	625.	5.977e-002	8.681e-002	3.896e-002
1252	630.	625.5	5.96e-002	8.664e-002	3.889e-002
1253	630.5	626.	5.721e-002	8.425e-002	3.781e-002
1254	631.	626.5	5.841e-002	8.545e-002	3.835e-002
1255	631.5	627.	6.007e-002	8.711e-002	3.91e-002
1256	632.	627.5	5.647e-002	8.351e-002	3.748e-002
1257	632.5	628.	5.62e-002	8.324e-002	3.736e-002
1258	633.	628.5	5.662e-002	8.366e-002	3.755e-002
1259	633.5	629.	5.62e-002	8.324e-002	3.736e-002
1260	634.	629.5	5.574e-002	8.278e-002	3.715e-002
1261	634.5	630.	5.781e-002	8.485e-002	3.808e-002
1262	635.	630.5	5.5e-002	8.204e-002	3.682e-002
1263	635.5	631.	5.813e-002	8.517e-002	3.823e-002
1264	636.	631.5	6.152e-002	8.856e-002	3.975e-002
1265	636.5	632.	5.632e-002	8.336e-002	3.741e-002
1266	637.	632.5	5.527e-002	8.231e-002	3.694e-002
1267	637.5	633.	6.132e-002	8.836e-002	3.966e-002
1268	638.	633.5	6.05e-002	8.754e-002	3.929e-002
1269	638.5	634.	5.395e-002	8.099e-002	3.635e-002
1270	639.	634.5	5.586e-002	8.29e-002	3.721e-002
1271	639.5	635.	5.769e-002	8.473e-002	3.803e-002
1272	640.	635.5	5.647e-002	8.351e-002	3.748e-002
1273	640.5	636.	5.62e-002	8.324e-002	3.736e-002
1274	641.	636.5	5.346e-002	8.05e-002	3.613e-002
1275	641.5	637.	6.073e-002	8.777e-002	3.939e-002
1276	642.	637.5	5.769e-002	8.473e-002	3.803e-002
1277	642.5	638.	5.606e-002	8.31e-002	3.73e-002
1278	643.	638.5	5.662e-002	8.366e-002	3.755e-002
1279	643.5	639.	5.407e-002	8.111e-002	3.64e-002
1280	644.	639.5	5.586e-002	8.29e-002	3.721e-002
1281	644.5	640.	5.258e-002	7.962e-002	3.574e-002
1282	645.	640.5	6.06e-002	8.764e-002	3.934e-002
1283	645.5	641.	5.708e-002	8.412e-002	3.776e-002
1284	646.	641.5	5.32e-002	8.024e-002	3.601e-002
1285	646.5	642.	5.485e-002	8.189e-002	3.675e-002
1286	647.	642.5	5.971e-002	8.675e-002	3.894e-002
1287	647.5	643.	5.288e-002	7.992e-002	3.587e-002

1288	648.	643.5	5.407e-002	8.111e-002	3.64e-002
1289	648.5	644.	5.05e-002	7.754e-002	3.48e-002
1290	649.	644.5	5.36e-002	8.064e-002	3.619e-002
1291	649.5	645.	5.078e-002	7.782e-002	3.493e-002
1292	650.	645.5	5.775e-002	8.479e-002	3.806e-002
1293	650.5	646.	5.258e-002	7.962e-002	3.574e-002
1294	651.	646.5	5.586e-002	8.29e-002	3.721e-002
1295	651.5	647.	5.395e-002	8.099e-002	3.635e-002
1296	652.	647.5	5.736e-002	8.44e-002	3.788e-002
1297	652.5	648.	5.212e-002	7.916e-002	3.553e-002
1298	653.	648.5	5.708e-002	8.412e-002	3.776e-002
1299	653.5	649.	5.244e-002	7.948e-002	3.567e-002
1300	654.	649.5	5.36e-002	8.064e-002	3.619e-002
1301	654.5	650.	5.107e-002	7.811e-002	3.506e-002
1302	655.	650.5	5.303e-002	8.007e-002	3.594e-002
1303	655.5	651.	5.813e-002	8.517e-002	3.823e-002
1304	656.	651.5	5.127e-002	7.831e-002	3.515e-002
1305	656.5	652.	5.288e-002	7.992e-002	3.587e-002
1306	657.	652.5	5.647e-002	8.351e-002	3.748e-002
1307	657.5	653.	5.557e-002	8.261e-002	3.708e-002
1308	658.	653.5	5.171e-002	7.875e-002	3.534e-002
1309	658.5	654.	5.258e-002	7.962e-002	3.574e-002
1310	659.	654.5	5.424e-002	8.128e-002	3.648e-002
1311	659.5	655.	5.303e-002	8.007e-002	3.594e-002
1312	660.	655.5	5.36e-002	8.064e-002	3.619e-002
1313	660.5	656.	5.303e-002	8.007e-002	3.594e-002
1314	661.	656.5	5.346e-002	8.05e-002	3.613e-002
1315	661.5	657.	5.05e-002	7.754e-002	3.48e-002
1316	662.	657.5	5.066e-002	7.77e-002	3.487e-002
1317	662.5	658.	5.244e-002	7.948e-002	3.567e-002
1318	663.	658.5	5.378e-002	8.082e-002	3.627e-002
1319	663.5	659.	4.961e-002	7.665e-002	3.44e-002
1320	664.	659.5	5.273e-002	7.977e-002	3.58e-002
1321	664.5	660.	5.5e-002	8.204e-002	3.682e-002
1322	665.	660.5	4.9e-002	7.604e-002	3.413e-002
1323	665.5	661.	5.107e-002	7.811e-002	3.506e-002
1324	666.	661.5	5.759e-002	8.463e-002	3.798e-002
1325	666.5	662.	5.336e-002	8.04e-002	3.609e-002
1326	667.	662.5	5.107e-002	7.811e-002	3.506e-002
1327	667.5	663.	5.389e-002	8.093e-002	3.632e-002
1328	668.	663.5	5.346e-002	8.05e-002	3.613e-002
1329	668.5	664.	5.273e-002	7.977e-002	3.58e-002
1330	669.	664.5	5.596e-002	8.3e-002	3.725e-002
1331	669.5	665.	5.208e-002	7.912e-002	3.551e-002
1332	670.	665.5	5.156e-002	7.86e-002	3.528e-002
1333	670.5	666.	4.843e-002	7.547e-002	3.387e-002
1334	671.	666.5	5.184e-002	7.888e-002	3.54e-002
1335	671.5	667.	5.506e-002	8.21e-002	3.685e-002
1336	672.	667.5	5.138e-002	7.842e-002	3.52e-002
1337	672.5	668.	4.961e-002	7.665e-002	3.44e-002
1338	673.	668.5	5.552e-002	8.256e-002	3.705e-002
1339	673.5	669.	5.459e-002	8.163e-002	3.664e-002
1340	674.	669.5	5.171e-002	7.875e-002	3.534e-002
1341	674.5	670.	5.303e-002	8.007e-002	3.594e-002
1342	675.	670.5	5.229e-002	7.933e-002	3.561e-002
1343	675.5	671.	5.653e-002	8.357e-002	3.751e-002
1344	676.	671.5	5.258e-002	7.962e-002	3.574e-002

1345	676.5	672.	5.971e-002	8.675e-002	3.894e-002
1346	677.	672.5	5.717e-002	8.421e-002	3.78e-002
1347	677.5	673.	5.32e-002	8.024e-002	3.601e-002
1348	678.	673.5	5.127e-002	7.831e-002	3.515e-002
1349	678.5	674.	5.066e-002	7.77e-002	3.487e-002
1350	679.	674.5	4.843e-002	7.547e-002	3.387e-002
1351	679.5	675.	4.662e-002	7.366e-002	3.306e-002
1352	680.	675.5	5.744e-002	8.448e-002	3.792e-002
1353	680.5	676.	4.961e-002	7.665e-002	3.44e-002
1354	681.	676.5	5.288e-002	7.992e-002	3.587e-002
1355	681.5	677.	5.034e-002	7.738e-002	3.473e-002
1356	682.	677.5	5.296e-002	8.e-002	3.591e-002
1357	682.5	678.	5.818e-002	8.522e-002	3.825e-002
1358	683.	678.5	4.643e-002	7.347e-002	3.298e-002
1359	683.5	679.	5.02e-002	7.724e-002	3.467e-002
1360	684.	679.5	5.491e-002	8.195e-002	3.678e-002
1361	684.5	680.	4.601e-002	7.305e-002	3.279e-002
1362	685.	680.5	4.541e-002	7.245e-002	3.252e-002
1363	685.5	681.	5.433e-002	8.137e-002	3.652e-002
1364	686.	681.5	4.99e-002	7.694e-002	3.453e-002
1365	686.5	682.	4.858e-002	7.562e-002	3.394e-002
1366	687.	682.5	4.796e-002	7.5e-002	3.366e-002
1367	687.5	683.	4.676e-002	7.38e-002	3.312e-002
1368	688.	683.5	4.662e-002	7.366e-002	3.306e-002
1369	688.5	684.	4.961e-002	7.665e-002	3.44e-002
1370	689.	684.5	4.631e-002	7.335e-002	3.292e-002
1371	689.5	685.	4.796e-002	7.5e-002	3.366e-002
1372	690.	685.5	4.643e-002	7.347e-002	3.298e-002
1373	690.5	686.	5.404e-002	8.108e-002	3.639e-002
1374	691.	686.5	4.843e-002	7.547e-002	3.387e-002
1375	691.5	687.	5.05e-002	7.754e-002	3.48e-002
1376	692.	687.5	4.557e-002	7.261e-002	3.259e-002
1377	692.5	688.	4.749e-002	7.453e-002	3.345e-002
1378	693.	688.5	4.362e-002	7.066e-002	3.171e-002
1379	693.5	689.	4.796e-002	7.5e-002	3.366e-002
1380	694.	689.5	4.721e-002	7.425e-002	3.333e-002
1381	694.5	690.	4.573e-002	7.277e-002	3.266e-002
1382	695.	690.5	4.662e-002	7.366e-002	3.306e-002
1383	695.5	691.	4.765e-002	7.469e-002	3.352e-002
1384	696.	691.5	5.522e-002	8.226e-002	3.692e-002
1385	696.5	692.	5.237e-002	7.941e-002	3.564e-002
1386	697.	692.5	4.69e-002	7.394e-002	3.319e-002
1387	697.5	693.	4.9e-002	7.604e-002	3.413e-002
1388	698.	693.5	5.459e-002	8.163e-002	3.664e-002
1389	698.5	694.	4.513e-002	7.217e-002	3.239e-002
1390	699.	694.5	4.765e-002	7.469e-002	3.352e-002
1391	699.5	695.	4.927e-002	7.631e-002	3.425e-002
1392	700.	695.5	4.707e-002	7.411e-002	3.326e-002
1393	700.5	696.	4.69e-002	7.394e-002	3.319e-002
1394	701.	696.5	4.796e-002	7.5e-002	3.366e-002
1395	701.5	697.	4.421e-002	7.125e-002	3.198e-002
1396	702.	697.5	4.304e-002	7.008e-002	3.145e-002
1397	702.5	698.	4.94e-002	7.644e-002	3.431e-002
1398	703.	698.5	4.843e-002	7.547e-002	3.387e-002
1399	703.5	699.	4.834e-002	7.538e-002	3.383e-002
1400	704.	699.5	5.087e-002	7.791e-002	3.497e-002
1401	704.5	700.	5.103e-002	7.807e-002	3.504e-002

1402	705.	700.5	4.618e-002	7.322e-002	3.286e-002
1403	705.5	701.	4.775e-002	7.479e-002	3.357e-002
1404	706.	701.5	5.37e-002	8.074e-002	3.624e-002
1405	706.5	702.	4.643e-002	7.347e-002	3.298e-002
1406	707.	702.5	4.834e-002	7.538e-002	3.383e-002
1407	707.5	703.	4.573e-002	7.277e-002	3.266e-002
1408	708.	703.5	4.331e-002	7.035e-002	3.157e-002
1409	708.5	704.	4.967e-002	7.671e-002	3.443e-002
1410	709.	704.5	4.421e-002	7.125e-002	3.198e-002
1411	709.5	705.	4.736e-002	7.44e-002	3.339e-002
1412	710.	705.5	4.482e-002	7.186e-002	3.225e-002
1413	710.5	706.	4.541e-002	7.245e-002	3.252e-002
1414	711.	706.5	4.394e-002	7.098e-002	3.186e-002
1415	711.5	707.	4.662e-002	7.366e-002	3.306e-002
1416	712.	707.5	4.465e-002	7.169e-002	3.218e-002
1417	712.5	708.	4.421e-002	7.125e-002	3.198e-002
1418	713.	708.5	4.825e-002	7.529e-002	3.379e-002
1419	713.5	709.	4.155e-002	6.859e-002	3.078e-002
1420	714.	709.5	4.257e-002	6.961e-002	3.124e-002
1421	714.5	710.	4.541e-002	7.245e-002	3.252e-002
1422	715.	710.5	4.662e-002	7.366e-002	3.306e-002
1423	715.5	711.	4.585e-002	7.289e-002	3.271e-002
1424	716.	711.5	4.707e-002	7.411e-002	3.326e-002
1425	716.5	712.	4.736e-002	7.44e-002	3.339e-002
1426	717.	712.5	4.331e-002	7.035e-002	3.157e-002
1427	717.5	713.	4.718e-002	7.422e-002	3.331e-002
1428	718.	713.5	4.878e-002	7.582e-002	3.403e-002
1429	718.5	714.	5.074e-002	7.778e-002	3.491e-002
1430	719.	714.5	4.984e-002	7.688e-002	3.451e-002
1431	719.5	715.	4.243e-002	6.947e-002	3.118e-002
1432	720.	715.5	4.287e-002	6.991e-002	3.138e-002
1433	720.5	716.	4.702e-002	7.406e-002	3.324e-002
1434	721.	716.5	4.317e-002	7.021e-002	3.151e-002
1435	721.5	717.	5.074e-002	7.778e-002	3.491e-002
1436	722.	717.5	4.124e-002	6.828e-002	3.065e-002
1437	722.5	718.	4.482e-002	7.186e-002	3.225e-002
1438	723.	718.5	4.304e-002	7.008e-002	3.145e-002
1439	723.5	719.	4.541e-002	7.245e-002	3.252e-002
1440	724.	719.5	4.482e-002	7.186e-002	3.225e-002
1441	724.5	720.	4.212e-002	6.916e-002	3.104e-002
1442	725.	720.5	4.495e-002	7.199e-002	3.231e-002
1443	725.5	721.	4.394e-002	7.098e-002	3.186e-002
1444	726.	721.5	4.182e-002	6.886e-002	3.091e-002
1445	726.5	722.	4.639e-002	7.343e-002	3.296e-002
1446	727.	722.5	4.243e-002	6.947e-002	3.118e-002
1447	727.5	723.	4.454e-002	7.158e-002	3.213e-002
1448	728.	723.5	3.973e-002	6.677e-002	2.997e-002
1449	728.5	724.	4.257e-002	6.961e-002	3.124e-002
1450	729.	724.5	4.908e-002	7.612e-002	3.416e-002
1451	729.5	725.	4.171e-002	6.875e-002	3.086e-002
1452	730.	725.5	4.474e-002	7.178e-002	3.222e-002
1453	730.5	726.	4.362e-002	7.066e-002	3.171e-002
1454	731.	726.5	3.928e-002	6.632e-002	2.977e-002
1455	731.5	727.	4.421e-002	7.125e-002	3.198e-002
1456	732.	727.5	5.131e-002	7.835e-002	3.517e-002
1457	732.5	728.	4.018e-002	6.722e-002	3.017e-002
1458	733.	728.5	4.893e-002	7.597e-002	3.41e-002

1459	733.5	729.	3.734e-002	6.438e-002	2.89e-002
1460	734.	729.5	4.005e-002	6.709e-002	3.011e-002
1461	734.5	730.	3.91e-002	6.614e-002	2.969e-002
1462	735.	730.5	4.287e-002	6.991e-002	3.138e-002
1463	735.5	731.	5.087e-002	7.791e-002	3.497e-002
1464	736.	731.5	3.658e-002	6.362e-002	2.855e-002
1465	736.5	732.	3.886e-002	6.59e-002	2.958e-002
1466	737.	732.5	4.171e-002	6.875e-002	3.086e-002
1467	737.5	733.	3.808e-002	6.512e-002	2.923e-002
1468	738.	733.5	4.047e-002	6.751e-002	3.03e-002
1469	738.5	734.	3.959e-002	6.663e-002	2.991e-002
1470	739.	734.5	3.823e-002	6.527e-002	2.929e-002
1471	739.5	735.	4.893e-002	7.597e-002	3.41e-002
1472	740.	735.5	4.347e-002	7.051e-002	3.165e-002
1473	740.5	736.	4.287e-002	6.991e-002	3.138e-002
1474	741.	736.5	3.746e-002	6.45e-002	2.895e-002
1475	741.5	737.	3.989e-002	6.693e-002	3.004e-002
1476	742.	737.5	4.107e-002	6.811e-002	3.057e-002
1477	742.5	738.	4.138e-002	6.842e-002	3.071e-002
1478	743.	738.5	3.898e-002	6.602e-002	2.963e-002
1479	743.5	739.	3.869e-002	6.573e-002	2.95e-002
1480	744.	739.5	4.107e-002	6.811e-002	3.057e-002
1481	744.5	740.	4.124e-002	6.828e-002	3.065e-002
1482	745.	740.5	3.689e-002	6.393e-002	2.869e-002
1483	745.5	741.	4.433e-002	7.137e-002	3.203e-002
1484	746.	741.5	4.243e-002	6.947e-002	3.118e-002
1485	746.5	742.	3.555e-002	6.259e-002	2.809e-002
1486	747.	742.5	3.764e-002	6.468e-002	2.903e-002
1487	747.5	743.	3.869e-002	6.573e-002	2.95e-002
1488	748.	743.5	3.626e-002	6.33e-002	2.841e-002
1489	748.5	744.	3.973e-002	6.677e-002	2.997e-002
1490	749.	744.5	4.31e-002	7.014e-002	3.148e-002
1491	749.5	745.	3.57e-002	6.274e-002	2.816e-002
1492	750.	745.5	4.065e-002	6.769e-002	3.038e-002
1493	750.5	746.	4.005e-002	6.709e-002	3.011e-002
1494	751.	746.5	3.555e-002	6.259e-002	2.809e-002
1495	751.5	747.	4.594e-002	7.298e-002	3.276e-002
1496	752.	747.5	3.855e-002	6.559e-002	2.944e-002
1497	752.5	748.	4.138e-002	6.842e-002	3.071e-002
1498	753.	748.5	4.341e-002	7.045e-002	3.162e-002
1499	753.5	749.	3.84e-002	6.544e-002	2.937e-002
1500	754.	749.5	3.989e-002	6.693e-002	3.004e-002
1501	754.5	750.	3.764e-002	6.468e-002	2.903e-002
1502	755.	750.5	4.091e-002	6.795e-002	3.05e-002
1503	755.5	751.	3.898e-002	6.602e-002	2.963e-002
1504	756.	751.5	4.222e-002	6.926e-002	3.109e-002
1505	756.5	752.	3.869e-002	6.573e-002	2.95e-002
1506	757.	752.5	4.684e-002	7.388e-002	3.316e-002
1507	757.5	753.	4.55e-002	7.254e-002	3.256e-002
1508	758.	753.5	4.107e-002	6.811e-002	3.057e-002
1509	758.5	754.	3.317e-002	6.021e-002	2.702e-002
1510	759.	754.5	3.795e-002	6.499e-002	2.917e-002
1511	759.5	755.	3.869e-002	6.573e-002	2.95e-002
1512	760.	755.5	4.31e-002	7.014e-002	3.148e-002
1513	760.5	756.	4.078e-002	6.782e-002	3.044e-002
1514	761.	756.5	3.54e-002	6.244e-002	2.802e-002
1515	761.5	757.	4.155e-002	6.859e-002	3.078e-002

1516	762.	757.5	3.78e-002	6.484e-002	2.91e-002
1517	762.5	758.	3.869e-002	6.573e-002	2.95e-002
1518	763.	758.5	3.795e-002	6.499e-002	2.917e-002
1519	763.5	759.	3.626e-002	6.33e-002	2.841e-002
1520	764.	759.5	3.689e-002	6.393e-002	2.869e-002
1521	764.5	760.	3.509e-002	6.213e-002	2.789e-002
1522	765.	760.5	3.689e-002	6.393e-002	2.869e-002
1523	765.5	761.	3.54e-002	6.244e-002	2.802e-002
1524	766.	761.5	3.626e-002	6.33e-002	2.841e-002
1525	766.5	762.	4.293e-002	6.997e-002	3.14e-002
1526	767.	762.5	3.91e-002	6.614e-002	2.969e-002
1527	767.5	763.	3.302e-002	6.006e-002	2.696e-002
1528	768.	763.5	4.193e-002	6.897e-002	3.096e-002
1529	768.5	764.	3.734e-002	6.438e-002	2.89e-002
1530	769.	764.5	4.087e-002	6.791e-002	3.048e-002
1531	769.5	765.	3.658e-002	6.362e-002	2.855e-002
1532	770.	765.5	4.147e-002	6.851e-002	3.075e-002
1533	770.5	766.	3.57e-002	6.274e-002	2.816e-002
1534	771.	766.5	3.658e-002	6.362e-002	2.855e-002
1535	771.5	767.	4.188e-002	6.892e-002	3.093e-002
1536	772.	767.5	4.433e-002	7.137e-002	3.203e-002
1537	772.5	768.	3.91e-002	6.614e-002	2.969e-002
1538	773.	768.5	3.166e-002	5.87e-002	2.635e-002
1539	773.5	769.	3.555e-002	6.259e-002	2.809e-002
1540	774.	769.5	4.234e-002	6.938e-002	3.114e-002
1541	774.5	770.	3.494e-002	6.198e-002	2.782e-002
1542	775.	770.5	3.689e-002	6.393e-002	2.869e-002
1543	775.5	771.	3.601e-002	6.305e-002	2.83e-002
1544	776.	771.5	3.525e-002	6.229e-002	2.796e-002
1545	776.5	772.	3.422e-002	6.126e-002	2.75e-002
1546	777.	772.5	3.317e-002	6.021e-002	2.702e-002
1547	777.5	773.	3.746e-002	6.45e-002	2.895e-002
1548	778.	773.5	3.374e-002	6.078e-002	2.728e-002
1549	778.5	774.	3.626e-002	6.33e-002	2.841e-002
1550	779.	774.5	3.241e-002	5.945e-002	2.668e-002
1551	779.5	775.	3.928e-002	6.632e-002	2.977e-002
1552	780.	775.5	3.509e-002	6.213e-002	2.789e-002
1553	780.5	776.	3.583e-002	6.287e-002	2.822e-002
1554	781.	776.5	3.601e-002	6.305e-002	2.83e-002
1555	781.5	777.	3.641e-002	6.345e-002	2.848e-002
1556	782.	777.5	3.705e-002	6.409e-002	2.877e-002
1557	782.5	778.	3.333e-002	6.037e-002	2.71e-002
1558	783.	778.5	3.452e-002	6.156e-002	2.763e-002
1559	783.5	779.	3.333e-002	6.037e-002	2.71e-002
1560	784.	779.5	3.509e-002	6.213e-002	2.789e-002
1561	784.5	780.	3.452e-002	6.156e-002	2.763e-002
1562	785.	780.5	3.795e-002	6.499e-002	2.917e-002
1563	785.5	781.	3.869e-002	6.573e-002	2.95e-002
1564	786.	781.5	4.027e-002	6.731e-002	3.021e-002
1565	786.5	782.	4.234e-002	6.938e-002	3.114e-002
1566	787.	782.5	3.764e-002	6.468e-002	2.903e-002
1567	787.5	783.	3.509e-002	6.213e-002	2.789e-002
1568	788.	783.5	3.345e-002	6.049e-002	2.715e-002
1569	788.5	784.	3.225e-002	5.929e-002	2.661e-002
1570	789.	784.5	3.333e-002	6.037e-002	2.71e-002
1571	789.5	785.	3.88e-002	6.584e-002	2.955e-002
1572	790.	785.5	3.816e-002	6.52e-002	2.926e-002

1573	790.5	786.	3.555e-002	6.259e-002	2.809e-002
1574	791.	786.5	3.283e-002	5.987e-002	2.687e-002
1575	791.5	787.	3.422e-002	6.126e-002	2.75e-002
1576	792.	787.5	3.302e-002	6.006e-002	2.696e-002
1577	792.5	788.	3.464e-002	6.168e-002	2.768e-002
1578	793.	788.5	3.764e-002	6.468e-002	2.903e-002
1579	793.5	789.	3.392e-002	6.096e-002	2.736e-002
1580	794.	789.5	3.436e-002	6.14e-002	2.756e-002
1581	794.5	790.	3.317e-002	6.021e-002	2.702e-002
1582	795.	790.5	3.525e-002	6.229e-002	2.796e-002
1583	795.5	791.	3.494e-002	6.198e-002	2.782e-002
1584	796.	791.5	3.78e-002	6.484e-002	2.91e-002
1585	796.5	792.	3.658e-002	6.362e-002	2.855e-002
1586	797.	792.5	2.987e-002	5.691e-002	2.554e-002
1587	797.5	793.	4.131e-002	6.835e-002	3.068e-002
1588	798.	793.5	3.181e-002	5.885e-002	2.641e-002
1589	798.5	794.	3.283e-002	5.987e-002	2.687e-002
1590	799.	794.5	3.452e-002	6.156e-002	2.763e-002
1591	799.5	795.	3.49e-002	6.194e-002	2.78e-002
1592	800.	795.5	3.928e-002	6.632e-002	2.977e-002
1593	800.5	796.	3.225e-002	5.929e-002	2.661e-002
1594	801.	796.5	3.225e-002	5.929e-002	2.661e-002
1595	801.5	797.	3.333e-002	6.037e-002	2.71e-002
1596	802.	797.5	3.317e-002	6.021e-002	2.702e-002
1597	802.5	798.	3.094e-002	5.798e-002	2.602e-002
1598	803.	798.5	3.893e-002	6.597e-002	2.961e-002
1599	803.5	799.	2.928e-002	5.632e-002	2.528e-002
1600	804.	799.5	3.258e-002	5.962e-002	2.676e-002
1601	804.5	800.	3.333e-002	6.037e-002	2.71e-002
1602	805.	800.5	3.302e-002	6.006e-002	2.696e-002
1603	805.5	801.	3.154e-002	5.858e-002	2.629e-002
1604	806.	801.5	3.154e-002	5.858e-002	2.629e-002
1605	806.5	802.	3.65e-002	6.354e-002	2.852e-002
1606	807.	802.5	2.838e-002	5.542e-002	2.487e-002
1607	807.5	803.	3.404e-002	6.108e-002	2.741e-002
1608	808.	803.5	2.881e-002	5.585e-002	2.507e-002
1609	808.5	804.	3.788e-002	6.492e-002	2.914e-002
1610	809.	804.5	3.154e-002	5.858e-002	2.629e-002
1611	809.5	805.	3.032e-002	5.736e-002	2.574e-002
1612	810.	805.5	3.27e-002	5.974e-002	2.681e-002
1613	810.5	806.	3.358e-002	6.062e-002	2.721e-002
1614	811.	806.5	3.094e-002	5.798e-002	2.602e-002
1615	811.5	807.	3.938e-002	6.642e-002	2.981e-002
1616	812.	807.5	2.957e-002	5.661e-002	2.541e-002
1617	812.5	808.	3.258e-002	5.962e-002	2.676e-002
1618	813.	808.5	2.733e-002	5.437e-002	2.44e-002
1619	813.5	809.	3.166e-002	5.87e-002	2.635e-002
1620	814.	809.5	2.928e-002	5.632e-002	2.528e-002
1621	814.5	810.	2.957e-002	5.661e-002	2.541e-002
1622	815.	810.5	3.094e-002	5.798e-002	2.602e-002
1623	815.5	811.	2.972e-002	5.676e-002	2.548e-002
1624	816.	811.5	3.241e-002	5.945e-002	2.668e-002
1625	816.5	812.	2.763e-002	5.467e-002	2.454e-002
1626	817.	812.5	3.094e-002	5.798e-002	2.602e-002
1627	817.5	813.	3.83e-002	6.534e-002	2.933e-002
1628	818.	813.5	2.987e-002	5.691e-002	2.554e-002
1629	818.5	814.	3.121e-002	5.825e-002	2.614e-002

1630	819.	814.5	3.047e-002	5.751e-002	2.581e-002
1631	819.5	815.	2.881e-002	5.585e-002	2.507e-002
1632	820.	815.5	3.27e-002	5.974e-002	2.681e-002
1633	820.5	816.	3.181e-002	5.885e-002	2.641e-002
1634	821.	816.5	3.302e-002	6.006e-002	2.696e-002
1635	821.5	817.	2.912e-002	5.616e-002	2.521e-002
1636	822.	817.5	3.258e-002	5.962e-002	2.676e-002
1637	822.5	818.	2.838e-002	5.542e-002	2.487e-002
1638	823.	818.5	2.928e-002	5.632e-002	2.528e-002
1639	823.5	819.	2.763e-002	5.467e-002	2.454e-002
1640	824.	819.5	2.763e-002	5.467e-002	2.454e-002
1641	824.5	820.	2.597e-002	5.301e-002	2.379e-002
1642	825.	820.5	3.225e-002	5.929e-002	2.661e-002
1643	825.5	821.	3.121e-002	5.825e-002	2.614e-002
1644	826.	821.5	2.763e-002	5.467e-002	2.454e-002
1645	826.5	822.	3.094e-002	5.798e-002	2.602e-002
1646	827.	822.5	3.241e-002	5.945e-002	2.668e-002
1647	827.5	823.	2.972e-002	5.676e-002	2.548e-002
1648	828.	823.5	2.821e-002	5.525e-002	2.48e-002
1649	828.5	824.	3.848e-002	6.552e-002	2.941e-002
1650	829.	824.5	2.777e-002	5.481e-002	2.46e-002
1651	829.5	825.	2.777e-002	5.481e-002	2.46e-002
1652	830.	825.5	3.445e-002	6.149e-002	2.76e-002
1653	830.5	826.	3.258e-002	5.962e-002	2.676e-002
1654	831.	826.5	2.945e-002	5.649e-002	2.535e-002
1655	831.5	827.	3.445e-002	6.149e-002	2.76e-002
1656	832.	827.5	3.154e-002	5.858e-002	2.629e-002
1657	832.5	828.	2.881e-002	5.585e-002	2.507e-002
1658	833.	828.5	3.127e-002	5.831e-002	2.617e-002
1659	833.5	829.	2.715e-002	5.419e-002	2.432e-002
1660	834.	829.5	2.794e-002	5.498e-002	2.468e-002
1661	834.5	830.	2.614e-002	5.318e-002	2.387e-002
1662	835.	830.5	2.957e-002	5.661e-002	2.541e-002
1663	835.5	831.	2.689e-002	5.393e-002	2.421e-002
1664	836.	831.5	2.462e-002	5.166e-002	2.319e-002
1665	836.5	832.	2.629e-002	5.333e-002	2.394e-002
1666	837.	832.5	2.945e-002	5.649e-002	2.535e-002
1667	837.5	833.	2.715e-002	5.419e-002	2.432e-002
1668	838.	833.5	2.821e-002	5.525e-002	2.48e-002
1669	838.5	834.	2.581e-002	5.285e-002	2.372e-002
1670	839.	834.5	3.34e-002	6.044e-002	2.713e-002
1671	839.5	835.	2.763e-002	5.467e-002	2.454e-002
1672	840.	835.5	2.642e-002	5.346e-002	2.399e-002
1673	840.5	836.	2.987e-002	5.691e-002	2.554e-002
1674	841.	836.5	2.851e-002	5.555e-002	2.493e-002
1675	841.5	837.	2.462e-002	5.166e-002	2.319e-002
1676	842.	837.5	3.368e-002	6.072e-002	2.725e-002
1677	842.5	838.	2.912e-002	5.616e-002	2.521e-002
1678	843.	838.5	2.808e-002	5.512e-002	2.474e-002
1679	843.5	839.	2.957e-002	5.661e-002	2.541e-002
1680	844.	839.5	2.746e-002	5.45e-002	2.446e-002
1681	844.5	840.	2.555e-002	5.259e-002	2.36e-002
1682	845.	840.5	2.838e-002	5.542e-002	2.487e-002
1683	845.5	841.	7.286e-003	3.433e-002	1.541e-002
1684	846.	841.5	2.733e-002	5.437e-002	2.44e-002
1685	846.5	842.	2.656e-002	5.36e-002	2.406e-002
1686	847.	842.5	2.555e-002	5.259e-002	2.36e-002

1687	847.5	843.	2.614e-002	5.318e-002	2.387e-002
1688	848.	843.5	2.689e-002	5.393e-002	2.421e-002
1689	848.5	844.	2.581e-002	5.285e-002	2.372e-002
1690	849.	844.5	1.793e-002	4.497e-002	2.018e-002
1691	849.5	845.	3.001e-002	5.705e-002	2.561e-002
1692	850.	845.5	2.572e-002	5.276e-002	2.368e-002
1693	850.5	846.	2.452e-002	5.156e-002	2.314e-002
1694	851.	846.5	2.524e-002	5.228e-002	2.346e-002
1695	851.5	847.	2.373e-002	5.077e-002	2.279e-002
1696	852.	847.5	2.808e-002	5.512e-002	2.474e-002
1697	852.5	848.	2.417e-002	5.121e-002	2.298e-002
1698	853.	848.5	2.838e-002	5.542e-002	2.487e-002
1699	853.5	849.	2.821e-002	5.525e-002	2.48e-002
1700	854.	849.5	2.223e-002	4.927e-002	2.211e-002
1701	854.5	850.	2.495e-002	5.199e-002	2.333e-002
1702	855.	850.5	2.851e-002	5.555e-002	2.493e-002
1703	855.5	851.	2.256e-002	4.96e-002	2.226e-002
1704	856.	851.5	2.777e-002	5.481e-002	2.46e-002
1705	856.5	852.	2.581e-002	5.285e-002	2.372e-002
1706	857.	852.5	2.283e-002	4.987e-002	2.238e-002
1707	857.5	853.	3.203e-002	5.907e-002	2.651e-002
1708	858.	853.5	2.357e-002	5.061e-002	2.272e-002
1709	858.5	854.	2.555e-002	5.259e-002	2.36e-002
1710	859.	854.5	2.075e-002	4.779e-002	2.145e-002
1711	859.5	855.	2.33e-002	5.034e-002	2.259e-002
1712	860.	855.5	2.572e-002	5.276e-002	2.368e-002
1713	860.5	856.	2.777e-002	5.481e-002	2.46e-002
1714	861.	856.5	2.223e-002	4.927e-002	2.211e-002
1715	861.5	857.	2.299e-002	5.003e-002	2.245e-002
1716	862.	857.5	2.299e-002	5.003e-002	2.245e-002
1717	862.5	858.	2.452e-002	5.156e-002	2.314e-002
1718	863.	858.5	2.344e-002	5.048e-002	2.266e-002
1719	863.5	859.	2.572e-002	5.276e-002	2.368e-002
1720	864.	859.5	2.043e-002	4.747e-002	2.131e-002
1721	864.5	860.	2.48e-002	5.184e-002	2.327e-002
1722	865.	860.5	2.33e-002	5.034e-002	2.259e-002
1723	865.5	861.	2.39e-002	5.094e-002	2.286e-002
1724	866.	861.5	2.777e-002	5.481e-002	2.46e-002
1725	866.5	862.	2.344e-002	5.048e-002	2.266e-002
1726	867.	862.5	2.629e-002	5.333e-002	2.394e-002
1727	867.5	863.	2.075e-002	4.779e-002	2.145e-002
1728	868.	863.5	2.194e-002	4.898e-002	2.198e-002
1729	868.5	864.	2.063e-002	4.767e-002	2.14e-002
1730	869.	864.5	2.614e-002	5.318e-002	2.387e-002
1731	869.5	865.	2.283e-002	4.987e-002	2.238e-002
1732	870.	865.5	2.316e-002	5.02e-002	2.253e-002
1733	870.5	866.	2.33e-002	5.034e-002	2.259e-002
1734	871.	866.5	2.597e-002	5.301e-002	2.379e-002
1735	871.5	867.	2.091e-002	4.795e-002	2.152e-002
1736	872.	867.5	2.373e-002	5.077e-002	2.279e-002
1737	872.5	868.	2.357e-002	5.061e-002	2.272e-002
1738	873.	868.5	2.209e-002	4.913e-002	2.205e-002
1739	873.5	869.	2.373e-002	5.077e-002	2.279e-002
1740	874.	869.5	2.166e-002	4.87e-002	2.186e-002
1741	874.5	870.	2.209e-002	4.913e-002	2.205e-002
1742	875.	870.5	2.166e-002	4.87e-002	2.186e-002
1743	875.5	871.	5.516e-003	3.256e-002	1.461e-002

1744	876.	871.5	2.194e-002	4.898e-002	2.198e-002
1745	876.5	872.	2.538e-002	5.242e-002	2.353e-002
1746	877.	872.5	2.152e-002	4.856e-002	2.179e-002
1747	877.5	873.	2.299e-002	5.003e-002	2.245e-002
1748	878.	873.5	2.12e-002	4.824e-002	2.165e-002
1749	878.5	874.	2.435e-002	5.139e-002	2.307e-002
1750	879.	874.5	2.015e-002	4.719e-002	2.118e-002
1751	879.5	875.	2.043e-002	4.747e-002	2.131e-002
1752	880.	875.5	2.152e-002	4.856e-002	2.179e-002
1753	880.5	876.	2.581e-002	5.285e-002	2.372e-002
1754	881.	876.5	2.152e-002	4.856e-002	2.179e-002
1755	881.5	877.	2.091e-002	4.795e-002	2.152e-002
1756	882.	877.5	2.802e-002	5.506e-002	2.471e-002
1757	882.5	878.	2.135e-002	4.839e-002	2.172e-002
1758	883.	878.5	2.152e-002	4.856e-002	2.179e-002
1759	883.5	879.	1.237e-002	3.941e-002	1.769e-002
1760	884.	879.5	1.97e-002	4.674e-002	2.098e-002
1761	884.5	880.	1.686e-002	4.39e-002	1.97e-002
1762	885.	880.5	1.882e-002	4.586e-002	2.058e-002
1763	885.5	881.	2.462e-002	5.166e-002	2.319e-002
1764	886.	881.5	-3.849e-003	2.319e-002	1.041e-002
1765	886.5	882.	2.209e-002	4.913e-002	2.205e-002
1766	887.	882.5	2.152e-002	4.856e-002	2.179e-002
1767	887.5	883.	1.314e-002	4.018e-002	1.803e-002

378 Truck Stop

6/18/2010

APPENDIX F
Edgefield Zoning Ordinances

101–150	5
151–200	6
201–300	7
301–400	8
401–500	9
over 500	2% of total required

(B) Parking spaces for the physically handicapped shall measure 12 feet by 20 feet or 8 feet in width, with an adjac access isle 8 feet in width, and shall be located as close as possible to ramps, walkways, and entrances. Parking spa should be located so that physically handicapped persons are not compelled to wheel or walk behind parked cars to re entrances, ramps, and walkways.

(Ord. 99-00-380, § 5.5, passed 4-4-00)

§ 152.076 MIXED USES.

(A) Where more than one principal use, whether with the same or different parking requirements occupy the sa building or premises or in the case of joint use of a building or premises by more than one use having the same parki requirements, the parking spaces required shall equal the sum of the requirements of the various uses computed separately

(B) However, up to 50% of the parking spaces required for (1) theaters, public auditoriums, bowling alleys, dar halls, clubs, churches and religious institutions may be provided and used jointly by (2) financial institutions, offices, ret stores, repair shops, service establishments, and similar uses not normally open, used, or operated during the same hours those listed in (1); provided however, that written agreement thereto is properly executed and filed with the county.

(Ord. 99-00-380, § 5.6, passed 4-4-00)

§ 152.077 OFF-STREET LOADING.

(A) All uses shall provide off-street loading space sufficient for their requirements. Such space shall be arranged that no vehicle being loaded or unloaded in connection with normal operations shall stand in or project into a public street sidewalk.

(B) Off-street loading and unloading space shall in all cases be located on the same lot or parcel of land as t structures they are intended to serve.

(Ord. 99-00-380, § 5.7, passed 4-4-00)

§ 152.078 USE OF CAMPERS OR RECREATION VEHICLES IN THE RD DISTRICT.

Recreational vehicles may be use for temporary lodging, up to seven days in any three-month period.

(Ord. 99-00-380, § 5.8, passed 4-4-00)

LAND DEVELOPMENT REGULATIONS

§ 152.080 PURPOSE.

The purpose of this subchapter is to advance the objectives of the South Carolina Local Planning Enabling Act of 19 to require harmonious, orderly, and progressive development of land in pursuit of public health, safety, economy, go order, appearance, convenience, morals, and the general welfare. In furtherance of these objectives, the regulation of la development in the county (zoned and unzoned areas) is designed:

(A) To encourage economically sound and stable development;

(B) To assure the timely provision of required streets, utilities, and other facilities and services to new l development;

(C) To assure the adequate provision of safe and convenient traffic access and circulation, both vehicular pedestrian in and through new land developments;

(D) To assure the provision of needed public open space and building sites in new land developments through dedication or reservation of land for recreation, education, transportation, and other public purposes; and

(E) To assure, in general, the wise and timely development of new areas in harmony with the Comprehensive Plai Edgefield County.

(Ord. 99-00-380, § 6.1, passed 4-4-00)

§ 152.081 SITE DESIGN STANDARDS, GENERALLY.

(A) *Site Analysis.* An analysis shall be made of characteristics of the development site, such as site context, geol and soil, topography, ecology, existing vegetation, structures, and road networks, visual features, and past and present us the site.

(B) *Site Design Considerations.*

(1) Site design shall take into consideration all existing local and regional plans, and shall be based on the analysis. To the extent practical, development shall be located to preserve any natural features on the site, to avoid areas environmental sensitivity, to minimize negative impacts and alteration of natural features, to avoid adversely affect ground water and aquifer recharge, to reduce cut and fill, to avoid unnecessary impervious cover, to prevent flooding, provide adequate access to lots and sites, and to mitigate adverse effects of shadow, noise, odor, traffic, drainage, utilities on neighboring properties.

(2) The following specific areas and resources shall be preserved to the extent consistent with the reasona utilization of the site.

(a) Unique and/or fragile areas, including wetlands as defined in Sec. 404, Federal Water Pollution Control Amendments of 1972, as determined by the U.S. Corps of Engineers.

(b) Trees 24" or more DBH (Diameter Breast High).

(c) Flood plain areas, as determined by FEMA (Federal Emergency Management Agency) and delineated flood boundary and floodway maps for the county.

(d) Habitats of endangered wildlife, as identified on federal and state lists.

(e) Historically significant structures and sites, as listed on federal, state, and/or local lists of historical places.

(Ord. 99-00-380, § 6.2, passed 4-4-00)

§ 152.082 STREETS, PUBLIC.

(A) *Circulation System Design.* Street systems shall be designed to permit the safe, efficient, and orderly movement traffic; to have a simple and logical pattern; to respect natural features and topography; to present an attractive streetsca and to permit linkage of major collector streets and subdivisions.

(B) *Layout and Alignment.*

(1) Proposed streets shall be coordinated with the existing street system in the surrounding area and, wh possible, shall provide for the continuation of existing streets abutting the development.

(2) All streets shall be opened to the exterior property lines of the development unless permanently terminated b vehicular turnaround or intersection with another street.

(3) Reserve strips controlling access to streets are prohibited except where their control is placed with the coun

under conditions approved by the Planning Commission.

(4) No half streets shall be permitted.

(5) Maximum (profile) grade shall be 8% for unpaved roadways and 12% for paved roadways. Minimum gra may be established for drainage purposes where needed.

(6) All breaks in tangent of alignment exceeding a difference in grades of 2% shall be provided with parabc vertical curves; length to be approved by Planning Commission.

(7) Sight distance shall meet or exceed applicable requirements established in the South Carolina Stand Specifications for Highway Construction, latest edition.

(8) Super-elevation may be required on horizontal curves where roadway speeds exceed 30 miles per hour.

(C) *Cul-de-sacs.*

(1) Dead-end streets designed to be permanently closed at one end shall not exceed 1200 feet in length measu from the right-of-way to the center point of the turn-around.

(2) Turn-grounds shall be provided at the closed end of a street and shall have a minimum radius of 60 fe Pavement width shall have a minimum curb radius of 40 feet. A landscape center island may be provided, if sight lines not obstructed. If such island is provided the pavement width of the turn-around shall be a minimum of 30 feet.

(3) Temporary dead-end streets, which extend for a greater distance than the depth of one abutting lot, shall provided with a temporary turn-around.

(D) *Intersections.*

(1) No more than two streets shall intersect at any one point.

(2) All streets shall intersect as nearly as possible at 90 degree right angles.

(3) Streets entering upon opposite sides of a given street shall have their center lines directly opposite or shall be set a minimum distance of 300 feet, measured along the centerline of the streets being intersected.

(4) Street intersections shall be located at least 150 feet from the right-of-way of any railroad track, measured frc the centerpoint of the intersection to the railroad right-of-way line nearest the intersection.

(E) *Right-of-way widths and construction standards, by road type.*

(1) *Unpaved streets and roads.* Unpaved roadways constructed on or after October 1, 2002, will not be consider for acceptance into the county road maintenance system, but may be considered county approved private roads; provid that, such roads must be constructed in accordance with the minimum standards set forth in § 152.083 in order to considered county-approved private roadways. Unpaved roadways constructed prior to October 1, 2002, may be accept into the county road maintenance system. However, such roads must first be improved to the following minimum standar

(a) Sixty-six foot right-of-way;

(b) Twenty-foot riding surface, with CR 14 stone spread at 300 pounds/square yard;

(c) Sub-grade, sub-base course, shoulders, and seeding constructed in accordance with applicable divisions a sections of South Carolina Standard Specifications for Highway Construction, latest edition; and

(d) All requirements of typical cross section for unpaved roadways, as shown below.

(2) *Paved streets and roads.* Beginning October 1, 2002, all newly constructed roadways accepted into cour maintenance system will be paved and otherwise constructed in accordance with the following minimum standards:

(a) Fifty-foot right-of-way;

(b) Twenty-foot riding surface;

(c) Sub-grade, base course, shoulders, surface course and seeding constructed in accordance with applic divisions and sections of South Carolina Standard Specifications for Highway Construction, latest edition;

(d) Base, binder and surface courses applied according to applicable California Bearing Ration (CBR) val and

(e) All requirements of typical cross section for paved roadways, as shown below.

(3) *Paved streets and roads with curb and gutter.*

(a) Fifty-foot right-of-way;

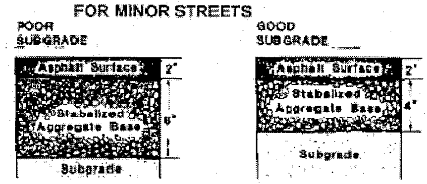
(b) Riding surface of 30 feet, as measured from outside curbing;

(c) Sub-grade, base course, shoulders, surface course, curb and gutter and seeding in accordance with applica divisions and sections of South Carolina Standard Specifications for Highway Construction, latest edition;

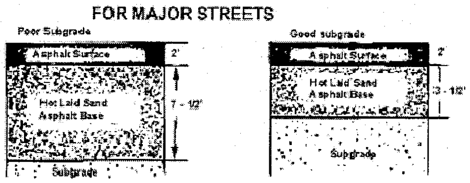
(d) Base, binder and surface courses applied according to applicable California Bearing Ration (CBR) val and

(e) All requirements of typical cross section for paved roadways with curb and gutter, as shown below.

FOR MINOR STREETS



FOR MAJOR STREETS



(F) *Dedication, Acceptance and Maintenance.*

(1) All roads and streets dedicated for county maintenance shall be deeded to the county with a title opinion, rig of-way deed and a plat prepared by a registered surveyor. Rights-of-way shall meet the dimensions applicable to road ty as set forth in division (E).

(2) Under no condition will the county repair or maintain roads on private property.

(3) (a) All roadways accepted by the county for maintenance under this chapter will be conditionally accepted a one-year period. During this period, county maintenance forces will perform standard routing maintenance, but if at a time during this probationary period any of the criteria required as a condition for acceptance ceases to exist the owner w be required to correct the deficiency.

(b) To ensure implementation, the owner shall be required to submit a bond or statement of escrow, which sh be in effect for a period of one year from the date of County Council's conditional acceptance. The purpose of such bond statement of escrow shall be to make corrections and repairs to roadways in the event that the owner is no longer lega accountable for deficiencies of the roadway. The amount of the bond or escrow shall be $5,000 per mile for unpav roadways and $20,000 per mile for paved roadways. Bond or escrow amounts may be prorated to increments no less th 1/10 of a mile. Escrows must be executed through a bank or financial institution authorized to do business in So Carolina. Bonds must be executed through an insurance company with an A.M. Best rating of A or better.

(4) No county maintained roadway shall be barricaded in any way and may not be posted with any type sign such "Private," "Posted," "Keep Out," or other similar sign. The roadway shall remain open at all times for use by the public

large as to local, state, and federal law.

(5) All roadways accepted into the county maintenance system must serve at least two separate property owners a at least two dwellings; alternately, the road must serve a planned subdivision with two or more lots.

(6) All roadways accepted into the county maintenance system shall connect to at least one federal, state, county, municipal roadway.

(Ord. 99-00-380, § 6.3, passed 4-4-00; Am. Ord. 02-03-427, passed 11-5-02)

§ 152.083 STREETS, PRIVATE.

The subdivision of land abutting private streets or roads for the purpose of establishing dwelling units shall be allow provided that, such private roads must be county approved private roads. Prior to county approval, and prior to the issuar of dwelling related permits, the developer or landowner must provide the Planning Department with the followi documentation:

(A) *Proof that the road will be maintained in perpetuity as a private road.* This proof must be presented in a fo suitable for recording in the Edgefield County Courthouse, with acceptable documentation including restrictive covenar deed conditions and private agreements. All such documentation must clearly indicate the private responsibility maintaining the affected roadways, and that such responsibility is applicable to all lots accessed by the private road question. Alternatively, the developer/landowner may provide proof that all lot owners possess an undivided prope interest in the road, as well as recorded information indicating individual responsibility for the road's maintenance. Unc no circumstances will the county maintain private roadways, regardless of whether such roadways are county approved.

(B) *Proof that the road exists in the form of a legally recorded right-of-way.* For all county approved private roa there must be recorded in the office of the Edgefield County Clerk of Court a road right-of-way of no less than 50 fe Right-of-way may be in the form of an easement; provided that, the easement must be expressly reserved for use as a ro and must be established by deed running with the property.

(C) *Minimum width and construction requirements.* Private roadways serving two or more dwellings or parcels m contain a driving surface not less than 20 feet in width. Sub-base course, sub-grade, surface, ditch and shoul requirements shall be the same as those required for unpaved roadways accepted into the county maintenance system, as forth in § 152.082(E)(1).

(D) *Determination of compliance with requirements for county approval.* Prior to approval of any subdivisi abutting a private road, the County Attorney must review and approve in writing all such documentation provided compliance with the requirements of divisions (A) and (B), The County Engineer shall issue a written report as to t private roadway's compliance with division (C).

(Ord. 99-00-380, § 6.4, passed 4-4-00; Am. Ord. 02-03-427, passed 11-5-02)

§ 152.084 SHOULDERS AND DITCHES.

Shoulders shall consist of stabilized turf or other material acceptable to the county and shall be prepared in compliar with Section 209 of the Standards Specifications Manual for Highway Construction, latest edition, Edgefield Cour Ordinance No. 91-303.

(Ord. 99-00-380, § 6.5, passed 4-4-00)

§ 152.085 SIGNAGE AND NAMES.

(A) *Street and Road Signs.*

(1) Design and placement of traffic signs shall follow state regulations or the requirements specified in the Man of Uniform Traffic Control Devices for Streets and Highways, published by the U.S. Department of Transportatio Responsibility for installation shall rest with the developer.

(2) At least two street name signs shall be placed at each four-way street intersection, and one at each " intersection. Signs shall be installed under streetlights, where possible, and free of visual obstruction. The design of str

name signs shall be uniform in size and color, and subject to approval by the Edgefield County E-911 office.

(3) Where subdivision roads are not to be dedicated to the county for public maintenance, the developer shall in: signs at the beginning of the private road stating "County Maintenance Ends".

(B) *Names.*

(1) *New Streets.* Street names shall be subject to approval of Edgefield County E-911 office and the E- Advisory Committee. Proposed street names shall be substantially different in sound and spelling from existing street the county unless at a future date plans call for a tie-in between the proposed street and an existing street. Where s streets are in obvious alignment with an existing street, it shall be given the same name as the existing street. Streets s not be given a surname.

(2) *New Subdivisions and Other Developments.* Subdivision and development names shall be subject to approval of Edgefield County E-911 office and the E-911 Advisory Committee, and shall not duplicate the name of recorded subdivision or development.

(Ord. 99-00-380, § 6.6, passed 4-4-00)

§ 152.086 STORM DRAINAGE.

(A) A drainage system shall be designed and constructed by the developer to provide for the proper drainage of surface water of the subdivision and the upland drainage area of which it is a part, to permit the unimpeded flow of natu water courses and to protect both residents of the proposed subdivision and down stream property owners from increa runoff resulting from development. Design of the system shall be based on the rational method of determination utiliz the 10-year rain frequency curve with consideration of the 100 year flood information. All street crossing drainage facili shall use a minimum of 18 inch pipe.

(B) Where adequate existing public storm sewers are reasonably accessible, the Planning Commission may require t the system proposed for the land being subdivided be connected thereto.

(C) All streets shall be provided with an adequate storm drainage system. The use of asphalt valley sections for str drainage may be allowed where approved by the Planning Commission. The Planning Commission may require concr curbs and gutters.

(D) Where curb and gutters and catch basins are provided or required, they shall be designed in accordance w specifications contained in the South Carolina Department of Highways and Public Transportation, Standard Specificati for Highway Construction, latest edition.

(E) The off-street system shall include the watershed affecting the subdivision and shall be extended to a watercou or ditch adequate to receive the storm drainage and shall be designed in accordance with the following requirements.

(1) When the drainage system is outside of the street right-of-way, the developer shall provide all requi easements in accordance with the provisions of this chapter.

(2) Open ditch drainage may be used. However, when open ditches are used to meet these requirements, they sh be adequately protected from erosion with vegetation, rip-rap, concrete lining, or other approved method.

(Ord. 99-00-380, § 6.7, passed 4-4-00)

§ 152.087 EROSION AND SEDIMENTATION CONTROL.

(A) The developer shall take measures to ensure that the amount of off site sedimentation runoff and erosion does 1 increase from preconstruction levels.

(B) The preliminary plan shall include a plan for erosion and sedimentation control in accordance with SC DHI regulations.

(Ord. 99-00-380, § 6.8, passed 4-4-00)

§ 152.088 EASEMENTS.

(A) *Drainage Easements.* Drainage easements shall be provided whenever a subdivision or development is traver by a water course, drainage way, channel, or stream, conforming substantially with the lines of such water course, and less than 20 feet wide or of sufficient width, as determined by the County Engineer, to carry off storm water and provide maintenance and improvements of the water course.

(B) *Utility Easements.* Utility easements, where provided along side or rear lot lines, shall be not less than 20 fee width. No structures or trees shall be placed within such easements. Such easements shall be maintained by the prop owner(s) and may be used to satisfy yard requirements. The location of utility easements shall be coordinated with the uti provider.

(C) *Easement Clearance.* All stumps, debris, trash, and fallen trees within the easement right-of-way shall be clea and removed.

(D) *Maintenance of Easements.*

(1) Covenant restrictions placed in the deed of a lot which contains a utility easement shall stipulate that the cou or utility company with lines in such easement shall have full right of access;

(2) The county shall maintain only those easements specifically accepted for public maintenance.

(Ord. 99-00-380, § 6.9, passed 4-4-00)

§ 152.089 SIDEWALKS.

The Planning Commission may require the developer to construct sidewalks within the right-of-way of public street connect with existing or proposed sidewalks and along major streets where sidewalks are needed for pedestrian traffic, su as to school and recreation areas. Sidewalks, where constructed, shall be done in accordance with the South Carol Department of Highways and Public Transportation Standard Specifications for Highway Construction, latest edition.

(Ord. 99-00-380, § 6.10, passed 4-4-00)

§ 152.090 LOTS.

(A) *Accessibility.* Each lot/dwelling shall be served by a separate driveway access adequate for emergency vehi traffic and extending directly to a county-approved street or road. No driveway shall be located closer than 25 feet to corner intersection of street right-of-way lines. County-approved streets or roads shall be county or state-maintained roa alternatively, private roads meeting then-applicable county standards for private roads will also be considered cour approved roads. However, to be considered county-approved roads, such private roads must meet or exceed those standa concerning private streets and roads, as set forth in § 152.083. The County shall not bear any maintenance responsibility county-approved private streets or roads.

(B) *Design.* Lot size, width, depth, shape, grade, and orientation shall be in proper relation to street and block desi to existing and proposed topographical conditions, and for the type of development and use contemplated. Maximum wi to depth ratios shall be 1:5 for residential subdivisions. Side lot lines shall be at right angles to straight street lines and rac to curved street lines.

(C) *Lot Dimensions, Lot Access, Conditions for Multiple Dwellings, and Road Improvement Requirements for La. Subdivisions.*

(1) *Lot Density on Unpaved Roads in Zoned and Unzoned Areas.** Where the placement of a dwelling uni proposed for an unpaved road, in either a zoned or an unzoned area, the number of dwelling units shall not exceed one lot, except as provided for below under § 152.090(C)(2). The minimum lot sizes given below shall apply, commensu with existing minimum right-of-way width extending to the lot from the nearest county-approved road. For purposes verifying existing right-of-way, the planning department shall refer to plats and deeds recorded in the County Courthou Lots on unpaved roads in the zoned areas shall meet the density/lot size standards in this subparagraph, not withstandin 152.023, Table 2.

Minimum Road Right-of-Way	**Minimum Lot Size***
For roadways with at least 50 feet r-o-w	One acre
For roadways with less than 50 feet r-o-w	Two and one-half acres**

*Density provisions for large residential subdivisions accessed by unpaved roads are provided for in § 152.09((5) below.

**For lots located on roadways with less than 50 feet r-o-w, which lots are located more than one-half mile fi another roadway with at least 50 feet r-o-w, lot sizes shall be 5 acres.

(2) *Permits for Additional Dwelling Units on Lots on Unpaved Roads in Zoned and Unzoned Areas.* The Builc Official or his designee shall grant permits for additional dwelling units on lots on unpaved roads where such lots exceed minimum size requirement specified in § 152.090(C)(1) above, after review of the following criteria and determination the following standards are met:

(a) Not more than one additional dwelling may be permitted for each 100% by which the lot exceeds specified minimum size in § 152.090(C)(1) above;

(b) No dwelling unit on the lot will be closer than 25 feet to any other dwelling unit on the lot;

(c) Each dwelling shall be accessed as provided for in § 152.090(A).

(3) *Access Requirements for Lots on Paved Roads in Unzoned Areas.* Each dwelling situated on a lot with pa road frontage and located in an unzoned area shall be served by a separate driveway providing individual direct access t county-approved street or road, as set forth in § 152.090(A).

(4) *Lot Density on Paved Roads in Zoned Areas.* All lots located on paved roads in zoned areas shall meet minimum lot area and dimensional requirements of Table 2, as shown in § 152.023. Corner lots shall be of sufficient size permit required front yard setbacks on both streets. Where more than one dwelling is proposed for a lot on a paved roac the zoned areas, each dwelling shall be so located as to ensure that all applicable lot area and setbacks will be met for e: structure as if it were established on a single lot and so arranged as to ensure required public access in the event the prope is subsequently subdivided for sale or transfer. Accessibility standards shall be the same as those set forth above ii 152.090(A).

(5) *Road Standards and Required Road Improvements for Large Subdivisions; Exemptions for Small Subdivision*

(a) *Large Subdivision Defined.* A large residential subdivision shall be said to occur where the expres: purpose of subdividing land is to create a residential subdivision to accommodate multiple single-family dwellin Additionally, a large residential subdivision shall be said to occur where any original lot is subdivided into more than new lots that are permitted for residential dwellings within any ten-year period. The term "original lot," for purposes of t section, shall refer to the existing configuration of a lot, parcel, property, or tract on the date of the adoption of th standards. The term "new lots" shall be interpreted to include all re-subdivided parcels emanating from the original par during any ten-year period.

(b) *Large Residential Subdivision Street/Road Improvement Requirements.* For all large subdivisions involvi the creation of a new street or road, such streets and roads shall be developed in accordance with the then-existing cou standards applicable to new streets and roads, including any requirements concerning the paving of new streets and roa However, where large subdivisions impact only existing unpaved county streets or roads, such impacted roads shall improved to meet all then-applicable standards for the acceptance of unpaved streets and roads; provided that, the Planni Commission may require that the entirety of such streets and roads be improved to such standards. The acceptance unpaved streets and roads shall be applicable only to streets and roads existing prior to the adoption of the standards of tl division. New streets or roads connecting to or extending existing publicly maintained roads, irrespective of whether su existing publicly maintained roads are paved, shall be considered as being new streets and roads. The landowner/develop shall be responsible for all improvements required to bring such roads up to then-applicable county standards for t acceptance of county roads.

(c) *Exemption of Small Residential Subdivisions from Street/Road Improvement Requirements.* Resident subdivisions not covered under the definition of large residential subdivisions, as defined in § 152.090(C)(5)(a), shall considered small residential subdivisions and shall be exempt from the street/road improvement requirements contained ii 152.090(C)(5)(b). However, each dwelling included in a small residential subdivision shall be accessed as provided for ir 152.090(A).

(D) *Flag Lots.* This section shall apply only to subdivisions of property in both zoned and unzoned areas, with spec references to zoned areas, such as setbacks established in Table 2, etc., being applicable to zoned areas only; provided t lots of 20 acres or more and lots not being subdivided shall be exempt from county flag lot regulations.

(1) *Creation from Existing Lot of Record.* A flag lot may be created from an existing lot of record to allow full complete development thereof, provided:

(a) The flag lot shall be occupied only for a single-family dwelling.

(b) The original lot must meet all zoning requirements specified for the respective zone in which it is locat both before and after subdivision.

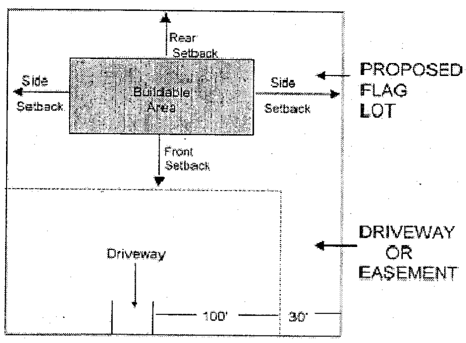
(c) The "flag" section of the flag-shaped lot shall meet or exceed the minimum lot area requirements specif for the respective zone. The area of the access driveway of the flag lot shall not be included in computing minimum lot a requirements but title to which must be conveyed by general warranty deed in the same manner as title to the "flag" port of the lot is conveyed.

(d) The front setback shall be measured from the front of the proposed new residence on the flag lot to the n rear property line of the original lot, which was created by the subdivision and shall meet or exceed the distance specif for the respective zone.

(e) Rear and side setbacks of a flag lot shall be as prescribed by Table 2.

(f) The driveway section shall be limited to use only by the original lot and the flag-shaped lot and shall b minimum of 30 feet.

EXISTING LOT OF RECORD



(2) *Creation in New Subdivision.* Flag lots may be created in new subdivisions where natural features surrounding development patterns create access problems, provided:

(a) Access driveways shall be not less than 30 feet wide, and shall front for at least 30 feet on a public street.

(b) Flag lot access driveways shall be separated by the required minimum lot width for the zoning district which the flag lot is to be created, measured from the front property line, but not less than 100 feet.

(c) Use of flag lot driveways by adjoining lots on either side of the driveway is encouraged as a means limiting curb cuts, but a flag lot driveway may not be used to access a second flag lot.

(d) The area of an access driveway shall not be counted when computing the minimum area of a lot as requi by § 152.023.

(e) No more than 25% of the total number of lots in subdivision shall be flag lots.

(E) *Double Frontage Lots.*

(1) Residential subdivisions involving new streets in the zoned areas of the county, where proposed for ar

adjacent to primary state and US highways, shall be denied direct access to and separated from such highways by doubl reverse frontage lots. No restrictions on double frontage lots in the unzoned area.

(2) Residential double frontage lots shall have a minimum rear yard of 50 feet, next to the arterial street, measu from the shortest distance of the proposed back building line to the street right-of-way and shall within such rear yard immediately adjacent to the right-of-way, have a non-access planting screen easement of at least 20 feet in depth.

(F) *Lots of Record.* Nothing in this section shall be construed as preventing a lot of record, the boundaries of wh were filed as legal record prior to the enactment of the foregoing lot standards (§ 152.090 Lots), from being used for establishment of a single dwelling, subject to site plan review for adequate accessibility.

(Ord. 99-00-380, § 6.11, passed 4-4-00; Am. Ord. 01-02-413, passed 11-5-02)

§ 152.091 BLOCKS.

Block size and shape shall reflect the physical characteristics of the site regarding topography, applicable zon requirements, natural growth and soil conditions and shall permit access, circulation, control and safety of traffic.

(A) Blocks should not be greater than 1200 feet nor less than 300 feet in length unless the unusual characteristics c particular site dictate otherwise.

(B) In general, blocks used for residential purposes shall be of sufficient width to allow for two tiers of lots appropriate depth, except where reverse frontage lots are required along a major street, or where prevented by si topographical conditions, or other inherent conditions of property, in which case the approval of the Planning Commissioi required.

(C) Blocks in commercial and industrial areas may vary from the elements of design previously detailed if required the nature of the use, subject to the approval of the Planning Commission.

(Ord. 99-00-380, § 6.12, passed 4-4-00)

§ 152.092 AREAS SUBJECT TO FLOODING.

If the area being developed, or any part thereof, is located within the boundary of a designated Flood Hazard Areas, delineated on FEMA Maps for the county, adequate plans and specifications for protection from flooding shall be provic as herein required:

(A) *Not To Be Expanded.*

(1) Any plat which contains land subject to flooding shall be accompanied by evidence that no apprecial expansion of the area subject to flooding would result from the proposed land development, and that the propos development will be adequately protected from inundation without appreciable interference with the flow of a watercourse or into an impounding basin.

(2) In no case shall any fill, levee, or other protective works be approved unless sufficient compensati adjustments of waterways, ditches, or impounding basins are made to prevent any appreciable expansion of flood haz areas.

(B) *Streets Subject to Flooding.* The centerline of all streets should be at least on the ten-year flood line.

(Ord. 99-00-380, § 6.13, passed 4-4-00)

§ 152.093 WATER SUPPLY.

(A) *Approval Required.* All developments and lots within subdivisions shall be provided with water supplies a systems conforming to the requirements, rules, and policies of the South Carolina Department of Health and Environmen Control (DHEC), and the Edgefield County Water and Sewer Authority.

(B) *System To Include Fire Hydrants.* Fire hydrants shall be installed by the developer in accordance with § 152.09

(Ord. 99-00-380, § 6.14, passed 4-4-00)

§ 152.094 SANITARY SEWERAGE FACILITIES.

(A) *DHEC Approval Required.* All developments and lots within subdivisions shall be provided with sanit sewerage facilities conforming to requirements, rules, and policies of the South Carolina Department of Health a Environmental Control (DHEC), and the Edgefield County Water and Sewer Authority.

(B) *System Requirements.* The sanitary sewer system shall be adequate to handle the necessary flow based complete development.

(Ord. 99-00-380, § 6.15, passed 4-4-00)

§ 152.095 FIRE HYDRANTS.

Fire hydrants shall be installed and spaced throughout each subdivision to maintain a 500 foot radius between hydran The location and spacing of hydrants shall be approved by the Fire Chief of jurisdiction.

(Ord. 99-00-380, § 6.16, passed 4-4-00)

§ 152.096 MAINTENANCE.

(A) The developer shall make such adequate provisions as shall be required by the Planning Commission for t perpetual maintenance of all sewer and water facilities until such obligations have been assumed by another entity.

(B) The maintenance of all storm drainage systems and easements, as defined by this chapter, and properly identifi on the plat as such, shall be the responsibility of the county from and after final approval by the Commission of all requi storm drainage improvements, and acceptance of such easement ownership by the county into its maintenance program.

(Ord. 99-00-380, § 6.17, passed 4-4-00)

§ 152.097 SURVEY AND MARKINGS.

All land developments within the jurisdiction of this chapter shall be surveyed, platted, and marked in accord with t Minimum Standards Manual for the Practice of Land Surveying in South Carolina, as promulgated by S.C. Code, Title Chapter 21. This Manual is hereby adopted by reference and is as much a part of this chapter as if contained herein.

(Ord. 99-00-380, § 6.18, passed 4-4-00)

GENERAL AND ANCILLARY REGULATIONS

§ 152.105 PURPOSE.

The regulations set forth in this subchapter are intended to clarify, supplement, or modify the regulations set fo elsewhere in this chapter for the zoned areas of the county.

(Ord. 99-00-380, Article 7 Introduction, passed 4-4-00)

§ 152.106 APPLICATION OF REGULATIONS.

(A) The various zoning district regulations established herein are declared to be the minimum requirements necess to carry out the purpose of this chapter. These regulations apply to each class or kind of structure or land, and are t minimum standards for all site clearing, development, buildings, structures, or alterations to land or structures within t jurisdiction of this chapter.

APPENDIX G
Summary of Adjacent Property Owners and Addresses

APPENDIX G
378 TRUCK STOP
SUMMARY OF ADJACENT PROPERTY OWNERS AND ADDRESSES

Parcel ID	Owner Name	Mailing Address	Property Address	Water Supply Wells	Notes
108-00-00-023-000	Gail & Barbera Whitmer	1226 Hwy 378 East, Edgefield, SC 29824	731 Hwy 378, Edgefield, SC	Possible abandoned WSW	SITE
108-00-00-022-000	Gail & Barbera Whitmer	1226 Hwy 378 East, Edgefield, SC 29824	N/A	Disconnected WSW	Wooded Area around site, has WSW for site.
108-00-00-035-000	Betty O. Doolittle	1184 Hwy 378 East, Edgefield, SC 29824	741 Hwy 378, Edgefield, SC	WSW-5	WSW-5 tag info: Date: 6/16/07, Depth: 300 ft
108-00-00-034-000	Shirley J. Coates	147 Riverbirch Dr Apt 6B, Aiken, SC 29803	N/A	WSW-6	WSW-6 tag info: Date: 9/14/00, Depth: 400 ft
108-00-00-038-000	Northlake Volunteer Fire Department	N/A	719 Hwy 378, Edgefield, SC	WSW-7	N/A
109-00-01-013-000	Johnnie James & Sophie Bowman	71 Faulkner Mountain Rd, Edgefield, SC 29824	71 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-9	N/A
109-00-01-014-000	Johnnie James Bowman Jr.	57 Faulkner Mountain Rd, Edgefield, SC 29824	57 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-15	N/A
109-00-01-007-000	Ida Bryant	54 Faulkner Mountain Rd, Edgefield, SC 29824	54 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-14	N/A
109-00-01-006-000	Ulyssess Padgett	62 Faulkner Mountain Rd, Edgefield, SC 29824	62 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-13	N/A
109-00-01-009-000	Derrick Simpkins	64 Faulkner Mountain Rd, Edgefield, SC 29824	64 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-12	N/A
109-00-01-010-000	Mitchell Luther Life Estate	66 Faulkner Mountain Rd, Edgefield, SC 29824	66 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-11	N/A
109-00-01-011-000	Bennie Culbreath	68 Faulkner Mountain Rd, Edgefield, SC 29824	68 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-10	N/A
109-00-01-012-000	Mamie L. Gordon	724 Hwy 378 East, Edgefield, SC 29824	724 Hwy 378 East, Edgefield, SC 29824	WSW-8 & Disconnected WSW	N/A
109-00-01-001-000	Hattie Scurry	730 Hwy 378 East, Edgefield, SC 29824	730 Hwy 378 East, Edgefield, SC 29824	WSW-1 & Disconnected WSW	WSW-1 tag info: Date: 12/91, Depth: 280 ft
109-00-01-002-000	Henry Allen Harling	136 Casbel Ct, Hopkins, SC 29061	N/A	Abandoned WSW	Wooded lot behind Scurry residence; resident indicated abandoned WSW is on the corner of the trailer.
109-00-00-026-000	Hattie Coates	736 Hwy 378 East, Edgefield, SC 29824	736 Hwy 378 East, Edgefield, SC 29824	WSW-2 & Abandoned WSW	N/A
109-00-00-028-000	John Hood	Post Office Box 25664, Los Angeles, CA, 90025	378E (number indicated on mailbox)	WSW-3 (Disconnected)	Not occupied
109-00-00-022-000	Andrew & Kathalene Stevens	752 Hwy 378 East, Edgefield, SC 29824	752 Hwy 378 East, Edgefield, SC 29824	WSW-4	N/A
109-00-00-025-000	Johnnie Lee Gilliam	5890 Saratoga Drive Crestview FL, SC 32536	N/A	Disconnected WSW	Abandoned trailer in the woods.

APPENDIX H
Surveyed Site Map

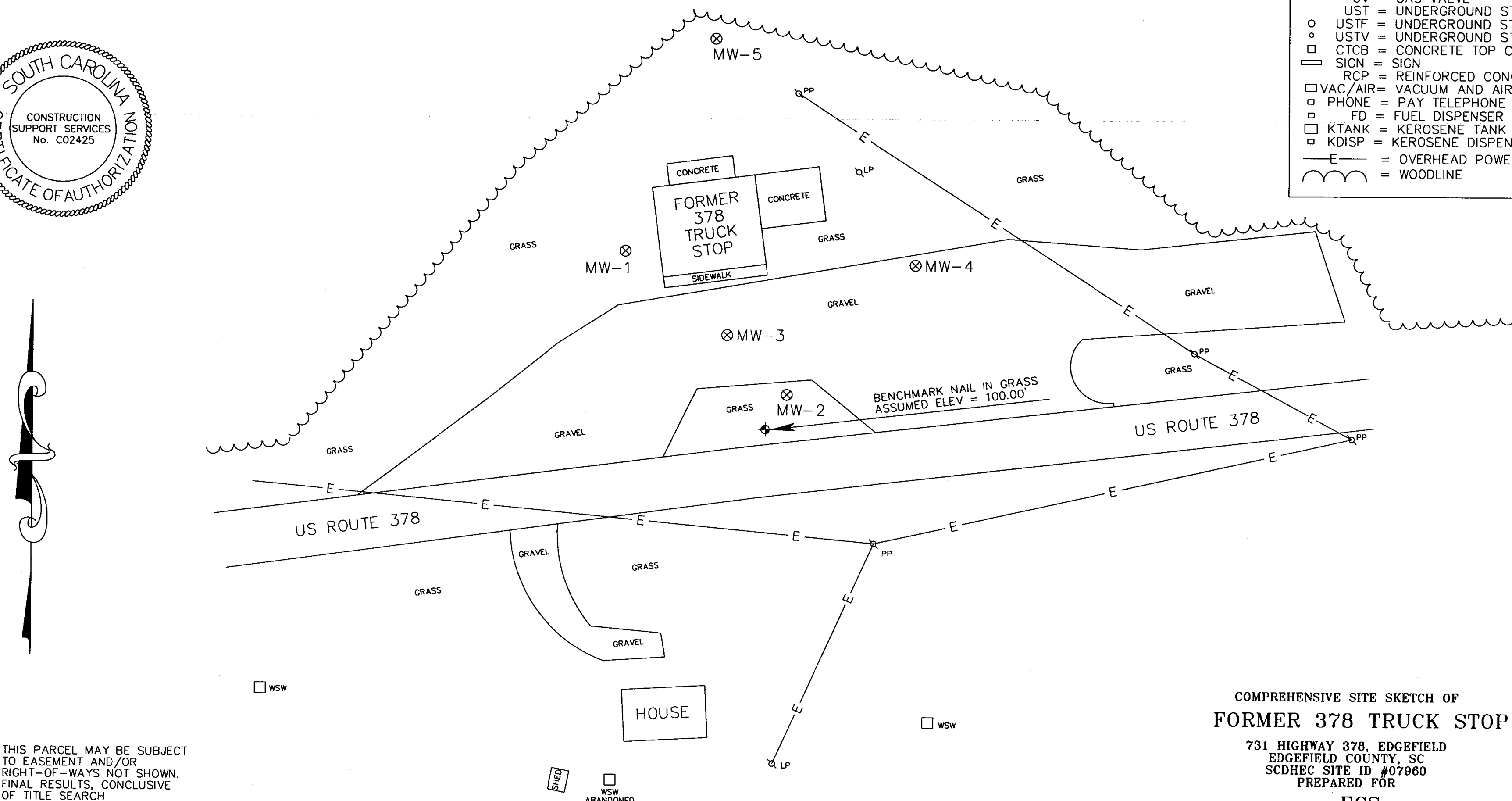
SOUTH CAROLINA
REGISTERED LAND SURVEYOR No. 14811
JAY S. JOSHI

SOUTH CAROLINA
CONSTRUCTION SUPPORT SERVICES No. C02425
CERTIFICATE OF AUTHORIZATION

MONITOR WELLS		
WELL	TOL ELEV.	TOC ELEV.
MW-1	102.02	101.85
MW-2	101.17	101.02
MW-3	102.02	101.46
MW-4	100.89	100.50
MW-5	104.48	104.21

LEGEND AND ABBREVIATIONS:

MW = MONITORING WELL
TPED = TELEPHONE PEDESTAL
SDMH = STORM DRAIN MAN HOLE
SSMH = SANITARY SEWER MAN HOLE
TMH = TELEPHONE MAN HOLE
WM = WATER METER
WV = WATER VALVE
FH = FIRE HYDRANT
FP = FLAG POLE
PP = POWER POLE
GM = GAS METER
GV = GAS VALVE
UST = UNDERGROUND STORAGE TANK
USTF = UNDERGROUND STORAGE TANK FILL
USTV = UNDERGROUND STORAGE TANK VENT
CTCB = CONCRETE TOP CATCH BASIN
SIGN = SIGN
RCP = REINFORCED CONCRETE PIPE
VAC/AIR= VACUUM AND AIR DISPENSER
PHONE = PAY TELEPHONE
FD = FUEL DISPENSER
KTANK = KEROSENE TANK
KDISP = KEROSENE DISPENSER
—E— = OVERHEAD POWER LINE
= WOODLINE



THIS PARCEL MAY BE SUBJECT TO EASEMENT AND/OR RIGHT-OF-WAYS NOT SHOWN. FINAL RESULTS, CONCLUSIVE OF TITLE SEARCH

GRAPHIC SCALE 1"=50'

0 50 100 150

NOTE:
NOT FOR THE PURPOSE OF RECORDATION AT COUNTY, COURTHOUSE OR THE CONVEYANCE OF PROPERTY.

NOTE:
I HEREBY CERTIFY THAT THE FIELD WORK, CALCULATIONS, AND DRAFTING WERE DONE UNDER MY DIRECT SUPERVISION.

COMPREHENSIVE SITE SKETCH OF

FORMER 378 TRUCK STOP

731 HIGHWAY 378, EDGEFIELD
EDGEFIELD COUNTY, SC
SCDHEC SITE ID #07960
PREPARED FOR

ECS

JAY S. JOSHI PLS # 14811
PO BOX 90408, COLUMBIA, SC, 29290 803-776-9909
DATE: JUNE 15, 2010 JOB #061410G

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www.pacelabs.com

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(704)875-9092

December 23, 2010

UST
DEC 3 0 2010
PROGRAM

Ms. Debra Thoma
SCDHEC
UST Program
2600 Bull Street
Columbia, SC 29201

RE: Project: 378 TRUCK STOP 07960
Pace Project No.: 9284355

Dear Ms. Thoma:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Renee Spencer

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

UST
DOCKET
#30

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CERTIFICATIONS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9284355

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Virginia Certification #: 00072
West Virginia Certification #: 356

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SAMPLE SUMMARY

Project: 378 TRUCK STOP 07960
Pace Project No.: 9284355

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9284355001	**SCURRY TAP**	Water	12/15/10 11:30	12/17/10 16:40
9284355002	**BARTLEY WSW**	Water	12/15/10 12:30	12/17/10 16:40

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SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP 07960
Pace Project No.: 9284355

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9284355001	**SCURRY TAP**	EPA 8011	RES	2	PASI-C
		EPA 6010	JMW	7	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	KJM	21	PASI-C
9284355002	**BARTLEY WSW**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	21	PASI-C

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HITS ONLY

Project: 378 TRUCK STOP 07960
Pace Project No.: 9284355

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
9284355001	**SCURRY TAP**					
EPA 6010	Arsenic	14.3	ug/L	5.0	12/23/10 13:35	
EPA 6010	Barium	75.5	ug/L	5.0	12/22/10 23:27	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9284355

Sample: SCURRY TAP Lab ID: 9284355001 Collected: 12/15/10 11:30 Received: 12/17/10 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/20/10 14:17	12/20/10 20:48	106-93-4	
1-Chloro-2-bromopropane (S)	106	%	60-140		1	12/20/10 14:17	12/20/10 20:48	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic	**14.3**	ug/L	5.0	2.7	1	12/20/10 11:00	12/23/10 13:35	7440-38-2	
Barium	**75.5**	ug/L	5.0	0.20	1	12/20/10 11:00	12/22/10 23:27	7440-39-3	
Cadmium	ND	ug/L	1.0	0.50	1	12/20/10 11:00	12/22/10 23:27	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	12/20/10 11:00	12/22/10 23:27	7440-47-3	
Lead	ND	ug/L	5.0	4.0	1	12/20/10 11:00	12/22/10 23:27	7439-92-1	
Selenium	ND	ug/L	10.0	3.8	1	12/20/10 11:00	12/22/10 23:27	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	12/20/10 11:00	12/22/10 23:27	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	12/21/10 11:25	12/22/10 14:19	7439-97-6	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/20/10 15:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/20/10 15:27	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		12/20/10 15:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/20/10 15:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/20/10 15:27	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/20/10 15:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/20/10 15:27	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/20/10 15:27	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		12/20/10 15:27	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/20/10 15:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/20/10 15:27	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/20/10 15:27	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/20/10 15:27	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		12/20/10 15:27	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		12/20/10 15:27	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/20/10 15:27	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/20/10 15:27	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130		1		12/20/10 15:27	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		12/20/10 15:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		12/20/10 15:27	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		12/20/10 15:27	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9284355

Sample: BARTLEY WSW **Lab ID: 9284355002** Collected: 12/15/10 12:30 Received: 12/17/10 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/20/10 14:17	12/20/10 21:04	106-93-4	
1-Chloro-2-bromopropane (S)	105	%	60-140		1	12/20/10 14:17	12/20/10 21:04	301-79-56	
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		12/20/10 15:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		12/20/10 15:52	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		12/20/10 15:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		12/20/10 15:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		12/20/10 15:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		12/20/10 15:52	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		12/20/10 15:52	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		12/20/10 15:52	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		12/20/10 15:52	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		12/20/10 15:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		12/20/10 15:52	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		12/20/10 15:52	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		12/20/10 15:52	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		12/20/10 15:52	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		12/20/10 15:52	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		12/20/10 15:52	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		12/20/10 15:52	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130		1		12/20/10 15:52	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		12/20/10 15:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		12/20/10 15:52	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/20/10 15:52	2037-26-5	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960
Pace Project No.: 9284355

QC Batch: OEXT/12211
Analysis Method: EPA 8011
QC Batch Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9284355001, 9284355002

METHOD BLANK: 543405
Matrix: Water
Associated Lab Samples: 9284355001, 9284355002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	12/20/10 19:58	
1-Chloro-2-bromopropane (S)	%	98	60-140	12/20/10 19:58	

LABORATORY CONTROL SAMPLE & LCSD: 543406 543407

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.29	0.36	0.37	126	126	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				106	106	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 543408 543409

Parameter	Units	9284251008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.37	0.37	130	130	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						108	107	60-140			

SAMPLE DUPLICATE: 543410

Parameter	Units	9284251009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	107	104	3		

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960
Pace Project No.: 9284355

QC Batch: MPRP/7613
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 9284355001

METHOD BLANK: 543351
Matrix: Water
Associated Lab Samples: 9284355001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	12/22/10 21:47	
Barium	ug/L	ND	5.0	12/22/10 21:47	
Cadmium	ug/L	ND	1.0	12/22/10 21:47	
Chromium	ug/L	ND	5.0	12/22/10 21:47	
Lead	ug/L	ND	5.0	12/22/10 21:47	
Selenium	ug/L	ND	10.0	12/22/10 21:47	
Silver	ug/L	ND	5.0	12/22/10 21:47	

LABORATORY CONTROL SAMPLE: 543352

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	521	104	80-120	
Barium	ug/L	500	512	102	80-120	
Cadmium	ug/L	500	531	106	80-120	
Chromium	ug/L	500	545	109	80-120	
Lead	ug/L	500	533	107	80-120	
Selenium	ug/L	500	518	104	80-120	
Silver	ug/L	250	254	102	80-120	

MATRIX SPIKE SAMPLE: 543353

Parameter	Units	9284218003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	38.7	500	619	116	75-125	
Barium	ug/L	16.6	500	516	100	75-125	
Cadmium	ug/L	ND	500	527	105	75-125	
Chromium	ug/L	ND	500	536	107	75-125	
Lead	ug/L	ND	500	497	99	75-125	
Selenium	ug/L	ND	500	588	116	75-125	
Silver	ug/L	ND	250	278	111	75-125	

SAMPLE DUPLICATE: 543354

Parameter	Units	9284218004 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Barium	ug/L	26.6	26.9	1	20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	1.4J		20	
Lead	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960
Pace Project No.: 9284355

SAMPLE DUPLICATE: 543354

Parameter	Units	9284218004 Result	Dup Result	RPD	Max RPD	Qualifiers
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960
Pace Project No.: 9284355

QC Batch: MERP/3212
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 9284355001

METHOD BLANK: 543684
Matrix: Water
Associated Lab Samples: 9284355001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/22/10 14:09	

LABORATORY CONTROL SAMPLE: 543685

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 543688 543689

Parameter	Units	9284089012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.6	2.6	102	102	75-125	0	25	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960
Pace Project No.: 9284355

QC Batch: MSV/13510
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 9284355001, 9284355002

METHOD BLANK: 543501
Matrix: Water
Associated Lab Samples: 9284355001, 9284355002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	12/20/10 12:04	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/20/10 12:04	
Benzene	ug/L	ND	1.0	12/20/10 12:04	
Diisopropyl ether	ug/L	ND	1.0	12/20/10 12:04	
Ethanol	ug/L	ND	200	12/20/10 12:04	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/20/10 12:04	
Ethylbenzene	ug/L	ND	1.0	12/20/10 12:04	
m&p-Xylene	ug/L	ND	2.0	12/20/10 12:04	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/20/10 12:04	
Naphthalene	ug/L	ND	1.0	12/20/10 12:04	
o-Xylene	ug/L	0.34J	1.0	12/20/10 12:04	
tert-Amyl Alcohol	ug/L	ND	100	12/20/10 12:04	
tert-Amylmethyl ether	ug/L	ND	10.0	12/20/10 12:04	
tert-Butyl Alcohol	ug/L	ND	100	12/20/10 12:04	
tert-Butyl Formate	ug/L	ND	50.0	12/20/10 12:04	
Toluene	ug/L	ND	1.0	12/20/10 12:04	
Xylene (Total)	ug/L	ND	2.0	12/20/10 12:04	
1,2-Dichloroethane-d4 (S)	%	107	70-130	12/20/10 12:04	
4-Bromofluorobenzene (S)	%	96	70-130	12/20/10 12:04	
Dibromofluoromethane (S)	%	109	70-130	12/20/10 12:04	
Toluene-d8 (S)	%	97	70-130	12/20/10 12:04	

LABORATORY CONTROL SAMPLE: 543502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	53.0	106	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	941	94	70-130	
Benzene	ug/L	50	52.7	105	70-130	
Diisopropyl ether	ug/L	50	50.7	101	70-130	
Ethanol	ug/L	2000	2220	111	70-130	
Ethyl-tert-butyl ether	ug/L	100	95.0	95	70-130	
Ethylbenzene	ug/L	50	55.3	111	70-130	
m&p-Xylene	ug/L	100	113	113	70-130	
Methyl-tert-butyl ether	ug/L	50	48.4	97	70-130	
Naphthalene	ug/L	50	52.1	104	70-130	
o-Xylene	ug/L	50	52.0	104	70-130	
tert-Amyl Alcohol	ug/L	1000	812	81	70-130	
tert-Amylmethyl ether	ug/L	100	98.0	98	70-130	
tert-Butyl Alcohol	ug/L	500	501	100	70-130	
tert-Butyl Formate	ug/L	400	366	92	70-130	
Toluene	ug/L	50	53.7	107	70-130	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960
Pace Project No.: 9284355

LABORATORY CONTROL SAMPLE: 543502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	165	110	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 543503 543504

Parameter	Units	9284232011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	54.2	59.9	108	120	70-130	10	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	909	1030	91	103	70-130	12	30	
Benzene	ug/L	ND	50	50	52.2	61.3	104	123	70-130	16	30	
Diisopropyl ether	ug/L	ND	50	50	50.2	59.0	100	118	70-130	16	30	
Ethanol	ug/L	ND	2000	2000	2170	2400	108	120	70-130	10	30	
Ethyl-tert-butyl ether	ug/L	ND	100	100	97.5	115	97	115	70-130	16	30	
Ethylbenzene	ug/L	ND	50	50	54.7	65.0	109	130	70-130	17	30	
m&p-Xylene	ug/L	ND	100	100	112	133	112	133	70-130	17	30	M0
Methyl-tert-butyl ether	ug/L	ND	50	50	48.8	55.5	98	111	70-130	13	30	
Naphthalene	ug/L	ND	50	50	49.3	56.8	99	114	70-130	14	30	
o-Xylene	ug/L	ND	50	50	50.5	60.1	101	120	70-130	17	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	893	960	89	96	70-130	7	30	
tert-Amylmethyl ether	ug/L	ND	100	100	101	115	101	115	70-130	13	30	
tert-Butyl Alcohol	ug/L	ND	500	500	614	679	123	136	70-130	10	30	M0
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	50	50	54.9	62.3	110	125	70-130	13	30	
1,2-Dichloroethane-d4 (S)	%						101	99	70-130			
4-Bromofluorobenzene (S)	%						98	98	70-130			
Dibromofluoromethane (S)	%						99	99	70-130			
Toluene-d8 (S)	%						102	101	70-130			

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QUALIFIERS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9284355

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 TRUCK STOP 07960
Pace Project No.: 9284355

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9284355001	**SCURRY TAP**	EPA 8011	OEXT/12211	EPA 8011	GCSV/8949
9284355002	**BARTLEY WSW**	EPA 8011	OEXT/12211	EPA 8011	GCSV/8949
9284355001	**SCURRY TAP**	EPA 3010	MPRP/7613	EPA 6010	ICP/7028
9284355001	**SCURRY TAP**	EPA 7470	MERP/3212	EPA 7470	MERC/3169
9284355001	**SCURRY TAP**	EPA 8260	MSV/13510		
9284355002	**BARTLEY WSW**	EPA 8260	MSV/13510		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1351565

Section A
Required Client Information:

Company: SC DHEC
Address: 2600 Bull Street
Columbia, SC
Email To: Ridglecte@dhec.sc.gov
Phone: 803-896-6633 Fax:
Requested Due Date/TAT: 5-7 days

Section B
Required Project Information:

Report To: Cathleen Ridgley
Copy To: Debra Thoma
Purchase Order No.: 4500011309
Project Name: 378 Truck Stop
Project Number: 0 79600A40724

Section C
Invoice Information:

Attention: Robertha Dorsey
Company Name: SC DHEC
Address: 260 Bull St, Cola SC
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
- NPDES
- GROUND WATER
- DRINKING WATER
- ~~UST~~
- RCRA
- OTHER

Site Location STATE: SC

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes	MATRIX / CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX, N, MBE, 1-2DCA, 8 oxygenate	EDB	8 RCRA metals										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9284355
1	Scurry tap	DW	G			12/15/10	1130		7			1	6						3	3	1											001
2	Bartley WSW	DW	G			12/15/10	1230		6				6						3	3												002
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Low detection limit	[signature]	12/17/10	8:50	[signature] / Pace	12/17/10	850				
~~4~~ day TA	[signature] / Pace	12/17	1640	[signature]	12/17/10	16:40	3.0	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Cathleen Ridgley
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 12/15/10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

DHEC PROMOTE PROTECT PROSPER

Old Highway 378 Truck Stop Community Meeting
December 13, 2010 – McKendree Methodist Church, Edgefield

Name	Address	Phone	Email
Gordon, Sidney	724 Hwy 378 E Edgefield, S.C. 29824	803 637-5266	yendisg@hughes.net
Sidney Gordon Jr.	514 Silverbell St Edgefield SC	803-637-0621	gordonsidney@rocketmail.com
Randy Gordon	724 Hwy 378 E Edgefield, S.C. 29824	803 637-5266	none
[illegible]	[illegible] HWY 378E		
Charles [illegible]	1134 HW 378E		
Fonda Walker	P.O. Box 231 Johnston S.C.	803-275-1935	
Hattie O. Scurry	730 Hwy 378 East Edgefield SC	803-637-5793	
[illegible] Padgett	1348 Long [illegible] R Edgefield	803-637-3089	
DIXIE HILL	774 HWY 378 E	803 637-5995	
Mary Padgett Ulyssess Padgett	62 Faulkner Mtn. Rd Edgefield, SC	~~803~~	

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DHEC PROMOTE PROTECT PROSPER

Old Highway 378 Truck Stop Community Meeting
December 13, 2010 – McKendree Methodist Church, Edgefield

DHEC PROMOTE PROTECT PROSPER

Name	Address	Phone	Email
Dennis Scurry	310 Virginia St. Johnston, S.C. 29832	803-480-4652	
Johnnie Bowman Jr	57 Faulkner Mtn. Rd Edgefield SC 29824	803 637-5147	
Bennie Culbreath	68 Faulkner mtn Rd Edgefield S.C. 29824	803 637-6475	
[illegible]	Edgefield SC 29824	803.637445	
Dale Bartley	102 Faulkner Mt Rd Edgefield	803-637-5422	
[illegible] Bartley	102 Faulkner Mtn Rd Edgefield	803-637-5422	
Ida Bryant	54 Faulkner mtn. Rd. Edgefield, S.C. 29824	803-637-3355	
Norman D[illegible]	881 Hwy. N. #25	803-633545	
Dennis Wo[illegible]	143 Virgil WHL Rd	803-637-6813	

DHEC PROMOTE PROTECT PROSPER

Old Highway 378 Truck Stop Community Meeting
December 13, 2010 – McKendree Methodist Church, Edgefield

Name	Address	Phone	Email
Cliff Owdom	P.O. Box 606 Sthedd	445-2154	

Donna Moye - Additional Information on 1,2-DCA

From: Fran Marshall
To: yendisg@use.net
Date: 12/16/2010 10:43 AM
Subject: Additional Information on 1,2-DCA
CC: Moye, Donna; Rowe, Donna H.

Mr. Gordon, below you will find some links to toxicological information on 1,2-dichloroethane (also known as ethylene dichloride, or abbreviated "1,2-DCA"). I know that you have done a good bit of research and you may well already be familiar with these web sites. The Tox Fact Sheet link under the Agency for Toxic Substances and Disease Registry (ATSDR) site provides a good summary. I found it interesting that 1,2-DCA was historically used in small amounts in household cleaning agents, pesticides and wallpaper/carpet glue.

If after looking over this information you have any additional questions, I would be more than happy to talk with you. I will be out of the office all week next week, but back on December 27. I wish you and yours a safe, happy and healthy Holiday Season.

Agency for Toxic Substances and Disease Registry landing page for 1,2-DCA:
http://www.atsdr.cdc.gov/substances/toxsubstance.asp?toxid=110

"**Summary:** 1,2-Dichloroethane, also called ethylene dichloride, is a manufactured chemical that is not found naturally in the environment. It is a clear liquid and has a pleasant smell and sweet taste. The most common use of 1,2-dichloroethane is in the production of vinyl chloride which is used to make a variety of plastic and vinyl products including polyvinyl chloride (PVC) pipes, furniture and automobile upholstery, wall coverings, housewares, and automobile parts. It is also used to as a solvent and is added to leaded gasoline to remove lead."

US Environmental Protection Agency landing page for 1,2-DCA (another name for 1,2-dichloroethane is ethylene dichloride): http://www.epa.gov/ttnatw01/hlthef/di-ethan.html

"Sources and Potential Exposure

- Inhalation of ethylene dichloride in the ambient or workplace air is generally the main route of human exposure. The compound may be released during its production, storage, use, transport, and disposal. (1)
- Exposure may also occur through the consumption of contaminated water. But usually ethylene dichloride will evaporate quickly into the air from the water or soil. (1)
- The average levels of ethylene dichloride in the air of seven urban locations in 1980-1981 ranged from 0.1 to 1.5 parts per billion (ppb). (1)"
-

Fran W. Marshall, J.D., M.S.P.H.
SC DHEC State Toxicologist
2600 Bull Street, Room 2673
Columbia, South Carolina 29201
803.898.9197

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Donna Moye - Fwd: 378 Truck Stop DHEC Meeting

From: Fran Marshall
To: Moye, Donna; Rowe, Donna H.
Date: 12/16/2010 11:03 AM
Subject: Fwd: 378 Truck Stop DHEC Meeting

I forgot to cc y'all on this one that I sent to Mr. Gordon yesterday.

Fran W. Marshall, J.D., M.S.P.H.
SC DHEC State Toxicologist
2600 Bull Street, Room 2673
Columbia, South Carolina 29201
803.898.9197

>>> Fran Marshall 12/15/2010 2:00 PM >>>
Mr. Gordon, it was a pleasure to speak with you on Monday night at the public meeting regarding the assessment of the groundwater contamination around the former 378 truck stop. First, again, my condolences concerning the death of your mother. I was also sorry to learn of your health issues and certainly wish you continuing improving health.

I am sorry not to get back with you sooner, but I was out of the office all day yesterday. I am still compiling some information for you on 1,2 DCA. I know that you have done a lot of research and you may well have all of the information that I will send.

I hope to have the information to you by tomorrow around lunchtime. I just wanted to let you know that I have not forgotten. In the interim, this is a really good web site from the National Library of Medicine about chemicals in the environment. I don't believe that this site will contain much toxicity information on 1,2, DCA, but it does have some good information generally. Here is the link: http://toxtown.nlm.nih.gov/

Again, it was a pleasure to meet with you. I will send you some additional information tomorrow.

Regards,

Fran W. Marshall, J.D., M.S.P.H.
SC DHEC State Toxicologist
2600 Bull Street, Room 2673
Columbia, South Carolina 29201
803.898.9197

Pace Analytical®
Charlotte Laboratory

Date: 1/13/11

Number of pages including cover sheet: 10

FAX

To: Kathleen

Phone:

Fax:

CC:

From: Erin

Phone:

Fax:

UST
JAN 13 2011
PROGRAM

REMARKS: ☐ Urgent ☒ For your review ☐ Reply ASAP ☐ Please comment

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Huntersville, NC 28078
(704)875-9092

January 13, 2011

Ms. Debra Thoma
SCDHEC
UST Program
2600 Bull Street
Columbia, SC 29201

RE: Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

Dear Ms. Thoma:

Enclosed are the analytical results for sample(s) received by the laboratory on January 07, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Erin L. Waters

Erin Waters for
Renee Spencer
renee.spencer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

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SAMPLE SUMMARY

Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9285449001	07960 WSW8	Water	01/06/11 14:00	01/07/11 13:45

REPORT OF LABORATORY ANALYSIS
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SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9285449001	07960 WSW8	EPA 8260	MCK	21	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

Sample: 07960 WSW8 **Lab ID: 9285449001** Collected: 01/06/11 14:00 Received: 01/07/11 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		01/08/11 12:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		01/08/11 12:56	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		01/08/11 12:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		01/08/11 12:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		01/08/11 12:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		01/08/11 12:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/08/11 12:56	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		01/08/11 12:56	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		01/08/11 12:56	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		01/08/11 12:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		01/08/11 12:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		01/08/11 12:56	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		01/08/11 12:56	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		01/08/11 12:56	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		01/08/11 12:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		01/08/11 12:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		01/08/11 12:56	95-47-6	
4-Bromofluorobenzene (S)	104	%	70-130		1		01/08/11 12:56	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		1		01/08/11 12:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		01/08/11 12:56	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		01/08/11 12:56	2037-26-5	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

QC Batch: MSV/13688 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 9285449001

METHOD BLANK: 549921 Matrix: Water
Associated Lab Samples: 9285449001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	01/08/11 04:38	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	01/08/11 04:38	
Benzene	ug/L	ND	1.0	01/08/11 04:38	
Diisopropyl ether	ug/L	ND	1.0	01/08/11 04:38	
Ethanol	ug/L	ND	200	01/08/11 04:38	
Ethyl-tert-butyl ether	ug/L	ND	10.0	01/08/11 04:38	
Ethylbenzene	ug/L	ND	1.0	01/08/11 04:38	
m&p-Xylene	ug/L	ND	2.0	01/08/11 04:38	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/08/11 04:38	
Naphthalene	ug/L	ND	1.0	01/08/11 04:38	
o-Xylene	ug/L	ND	1.0	01/08/11 04:38	
tert-Amyl Alcohol	ug/L	ND	100	01/08/11 04:38	
tert-Amylmethyl ether	ug/L	ND	10.0	01/08/11 04:38	
tert-Butyl Alcohol	ug/L	ND	100	01/08/11 04:38	
tert-Butyl Formate	ug/L	ND	50.0	01/08/11 04:38	
Toluene	ug/L	ND	1.0	01/08/11 04:38	
Xylene (Total)	ug/L	ND	2.0	01/08/11 04:38	
1,2-Dichloroethane-d4 (S)	%	108	70-130	01/08/11 04:38	
4-Bromofluorobenzene (S)	%	99	70-130	01/08/11 04:38	
Dibromofluoromethane (S)	%	116	70-130	01/08/11 04:38	
Toluene-d8 (S)	%	104	70-130	01/08/11 04:38	

LABORATORY CONTROL SAMPLE: 549922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.4	103	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	816	82	70-130	
Benzene	ug/L	50	45.5	91	70-130	
Diisopropyl ether	ug/L	50	49.8	100	70-130	
Ethanol	ug/L	2000	1920	96	70-130	
Ethyl-tert-butyl ether	ug/L	100	99.1	99	70-130	
Ethylbenzene	ug/L	50	46.0	92	70-130	
m&p-Xylene	ug/L	100	84.5	85	70-130	
Methyl-tert-butyl ether	ug/L	50	49.6	99	70-130	
Naphthalene	ug/L	50	45.6	91	70-130	
o-Xylene	ug/L	50	46.2	92	70-130	
tert-Amyl Alcohol	ug/L	1000	1070	107	70-130	
tert-Amylmethyl ether	ug/L	100	108	108	70-130	
tert-Butyl Alcohol	ug/L	500	576	115	70-130	
tert-Butyl Formate	ug/L	400	362	91	70-130	
Toluene	ug/L	50	51.4	103	70-130	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

LABORATORY CONTROL SAMPLE: 549922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	131	87	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			108	70-130	
Toluene-d8 (S)	%			103	70-130	

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QUALIFIERS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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LABORATORIES

PASI-C Pace Analytical Services - Charlotte

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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9285449001	07960 WSW8	EPA 8260	MSV/13688		

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January 11, 2011

Ms. Debra Thoma
SCDHEC
UST Program
2600 Bull Street
Columbia, SC 29201

UST
JAN 1 3 2011
PROGRAM

RE: Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

Dear Ms. Thoma:

Enclosed are the analytical results for sample(s) received by the laboratory on January 07, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Erin L. Waters for

Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

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9800 Kincey Ave. Ste 100, Huntersville, NC 28078
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New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

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(704)875-9092

SAMPLE SUMMARY

Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9285449001	**07960 WSW8**	Water	01/06/11 14:00	01/07/11 13:45

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SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9285449001	**07960 WSW8**	EPA 8260	MCK	21	PASI-C

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

Sample: 07960 WSW8 **Lab ID: 9285449001** Collected: 01/06/11 14:00 Received: 01/07/11 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		01/08/11 12:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		01/08/11 12:56	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		01/08/11 12:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		01/08/11 12:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		01/08/11 12:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		01/08/11 12:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		01/08/11 12:56	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		01/08/11 12:56	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		01/08/11 12:56	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		01/08/11 12:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		01/08/11 12:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		01/08/11 12:56	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		01/08/11 12:56	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		01/08/11 12:56	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		01/08/11 12:56	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		01/08/11 12:56	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		01/08/11 12:56	95-47-6	
4-Bromofluorobenzene (S)	104	%	70-130		1		01/08/11 12:56	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		1		01/08/11 12:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		01/08/11 12:56	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		01/08/11 12:56	2037-26-5	

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(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

QC Batch: MSV/13688
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 9285449001

METHOD BLANK: 549921
Matrix: Water
Associated Lab Samples: 9285449001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	01/08/11 04:38	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	01/08/11 04:38	
Benzene	ug/L	ND	1.0	01/08/11 04:38	
Diisopropyl ether	ug/L	ND	1.0	01/08/11 04:38	
Ethanol	ug/L	ND	200	01/08/11 04:38	
Ethyl-tert-butyl ether	ug/L	ND	10.0	01/08/11 04:38	
Ethylbenzene	ug/L	ND	1.0	01/08/11 04:38	
m&p-Xylene	ug/L	ND	2.0	01/08/11 04:38	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/08/11 04:38	
Naphthalene	ug/L	ND	1.0	01/08/11 04:38	
o-Xylene	ug/L	ND	1.0	01/08/11 04:38	
tert-Amyl Alcohol	ug/L	ND	100	01/08/11 04:38	
tert-Amylmethyl ether	ug/L	ND	10.0	01/08/11 04:38	
tert-Butyl Alcohol	ug/L	ND	100	01/08/11 04:38	
tert-Butyl Formate	ug/L	ND	50.0	01/08/11 04:38	
Toluene	ug/L	ND	1.0	01/08/11 04:38	
Xylene (Total)	ug/L	ND	2.0	01/08/11 04:38	
1,2-Dichloroethane-d4 (S)	%	108	70-130	01/08/11 04:38	
4-Bromofluorobenzene (S)	%	99	70-130	01/08/11 04:38	
Dibromofluoromethane (S)	%	116	70-130	01/08/11 04:38	
Toluene-d8 (S)	%	104	70-130	01/08/11 04:38	

LABORATORY CONTROL SAMPLE: 549922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.4	103	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	816	82	70-130	
Benzene	ug/L	50	45.5	91	70-130	
Diisopropyl ether	ug/L	50	49.8	100	70-130	
Ethanol	ug/L	2000	1920	96	70-130	
Ethyl-tert-butyl ether	ug/L	100	99.1	99	70-130	
Ethylbenzene	ug/L	50	46.0	92	70-130	
m&p-Xylene	ug/L	100	84.5	85	70-130	
Methyl-tert-butyl ether	ug/L	50	49.6	99	70-130	
Naphthalene	ug/L	50	45.6	91	70-130	
o-Xylene	ug/L	50	46.2	92	70-130	
tert-Amyl Alcohol	ug/L	1000	1070	107	70-130	
tert-Amylmethyl ether	ug/L	100	108	108	70-130	
tert-Butyl Alcohol	ug/L	500	576	115	70-130	
tert-Butyl Formate	ug/L	400	362	91	70-130	
Toluene	ug/L	50	51.4	103	70-130	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

LABORATORY CONTROL SAMPLE: 549922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	131	87	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			108	70-130	
Toluene-d8 (S)	%			103	70-130	

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QUALIFIERS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 TRUCK STOP 07960
Pace Project No.: 9285449

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9285449001	**07960 WSW8**	EPA 8260	MSV/13688		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1351566

Section A Required Client Information:

Company:	SCDHEC
Address:	2600 Bull St. Columbia SC 29204
Email To:	Debra thomas
Phone:	803 896-6633
Fax:	
Requested Due Date/TAT:	24hr

Section B Required Project Information:

Report To:	Debra thoma
Copy To:	Cathleen Ridgley
Purchase Order No.:	4500011309
Project Name:	378 Truck Stop
Project Number:	07960CA 40803

Section C Invoice Information:

Attention:	Robertha Dorsey
Company Name:	SC DHEC
Address:	2600 Bull St, Cola, SC
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	1387-2

REGULATORY AGENCY

NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ ~~UST~~ ☒ RCRA ☐ OTHER ____

Site Location STATE: SC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes	MATRIX / CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX, N, MtBE, 12DCA 8Oxygenates	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9285449
1	07960 WSW8	DW	G			1/6/11	2:00		4				X								001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
24 hr low detection limit	Cathleen R[illegible]	1/6/11	1/7/11	[illegible] / Pace	1/7/11	1041				
	[illegible] / Pace	1/7/11	1045	[illegible]	1/7/11	~~1515~~ 1345	3.0	Y	N	Y

3

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cathleen Ridgley

SIGNATURE of SAMPLER: Cathleen Ridgley

DATE Signed (MM/DD/YY): 1/6/11

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

DHEC

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

RENEE SPENCER
PACE ANALYTICAL SERVICES
9800 KINCEY AVE STE 100
HUNTERSVILLE NC 28078

JAN 10 2011

UST DOCKET
35 tech

Re: Laboratory Analyses Approval
Bid # IFB-33871-5/29/03-EMW; PO # 4500011309

Dear Ms. Spencer:

Under the terms and conditions of the referenced bid package, analytical sampling has been approved for the referenced facility. The facility has been assigned an individual Cost Agreement (CA) number as listed below. Please reference the CA number and Purchase Order #4500011309 on the appropriate invoice submitted for payment against the facility. SCDHEC personnel will perform the sampling.

UST Permit #	Facility	Analyses-Groundwater	CA #	Bottles (Y/N)	Date Needed
07960	378 Truck Stop	1-BTEXMN, DCA, Oxygenates - **RUSH**	40803	N	-----

If you have any questions or need further assistance, please contact me at (803) 896-6397 or thomadl@dhec.sc.gov.

Sincerely,

Debra L. Thoma

Debra L. Thoma, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land & Waste Management

Enc: Approved Cost Agreement

cc: Technical File (w/o enc.)

Approved Cost Agreement 40803

Facility: 07960 378 TRUCK STOP
RIDGLECT
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
11 ANALYSES						
	GW GROUNDWATER	A	BTEX+NAPTH+MTBE	1.0000	23.00	23.00
		B	RUSH BTEX+NAPTH+MTBE	1.0000	53.00	53.00
		P	8 OXYGENATES	1.0000	30.00	30.00
				Total Amount		106.00

TIER II ASSESSMENT REPORT
378 TRUCK STOP
731 HIGHWAY 378
EDGEFIELD, SC
EDGEFIELD COUNTY
UST PERMIT NO. 07960

Prepared For:

Wilkerson Fuel Company, Inc.
PO Box 2835
Rock Hill, SC 29732

Prepared By:

Environmental Compliance Services, Inc.
13504 South Point Blvd, Unit F
Charlotte, NC 28273
SC Certification No. 358

January 5, 2011

Christine E. Dupuis
Project Manager

CRAIG L. KENNEDY
REGISTERED
No. 2425
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

Craig L. Kennedy, P.G.
SC License No. 2425

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FIGURES

APPENDICES

1.0 INTRODUCTION

1.1 Background

This report presents results of Tier II assessment activities conducted at the former 378 Truck Stop facility (UST permit number 07960) located at 731 Highway 378 in Edgefield, South Carolina (**Figure 1**). Activities were conducted in accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) directive dated August 16, 2010, which included cost agreement number 39645.

The site was not in use at the time of this assessment. An abandoned building was present onsite during our visits associated with the Tier II assessment activities. A concrete slab was located directly to the east of, and abutting, the onsite building.

A release at the site was reported on October 3, 1974 and was confirmed on July 8, 1996. Reportedly, one 550-gallon diesel, one 1,000-gallon gasoline, and one 2,000-gallon gasoline underground storage tanks (USTs) and their associated piping and dispensers were removed from the site on January 1, 1987. The site did not contain USTs at the time of this assessment.

1.2 Regional Geology/Hydrogeology

The sedimentary formations of the Coastal Plain range in age from Late Cretaceous to Recent. They consist, for the most part, of unconsolidated sand, clay, gravel, marl, and limestone which have been deposited on a surface of granite, schist, and gneiss similar to, and a continuation of, the rocks underlying the adjoining Piedmont province. Some coquinas have been silicified to form so-called buhrstones and some clays hardened into siltstones. Considered en masse, the formations of the Coastal Plain may be classified as having a monoclinal or aclinal structure, and they rest on rocks of a much older crystalline complex. The unconsolidated rocks occur as wedges of sand, clay, marl, and limestone. Underlying the unconsolidated sediments are "crystalline" rocks consisting of granite, gneiss, schist, and a series of volcanics. Fault troughs or grabens were formed in these pre-Mesozoic rocks during Triassic time, into which were deposited ferruginous and carbonaceous sands and clays. These sediments were subsequently injected by diabase dikes and sills.

1.3 Receptor Survey Results

A receptor survey was conducted within a 1,000 foot radius of the subject site during the May 2010 Tier I assessment activities. The 378 Truck Stop site was located in a predominantly residential area in

Edgefield County (**Figure 1**). Properties directly surrounding the site were open fields. Nearby properties were mainly open fields and residences. A volunteer fire department station was located on the corner of Highway 378 and Faulkner Mountain Road.

Municipal water was not provided to the area. Multiple private water supply wells were identified during the Tier I receptor survey and were subsequently plotted on a site vicinity map. A comprehensive survey which included the private water supply wells, conducted during Tier II assessment activities, resulted in multiple changes to the site vicinity map. The identified water supply wells are listed below along with location information.

Description of Receptor	Receptor Address	Distance/Direction from Site
Private Water Supply Well (labeled WSW-1)	730 Hwy 378 East, Edgefield, SC 29824	Approximately 205 ft SSE of the site
Private Water Supply Well (labeled WSW-2)	736 Hwy 378 East, Edgefield, SC 29824	Approximately 500 ft SSE of the site
Private Water Supply Well (labeled WSW-4)	752 Hwy 378 East, Edgefield, SC 29824	Approximately 830 ft SE of the site
Private Water Supply Well (labeled WSW-5)	745 Hwy 378, Edgefield, SC 29824	Approximately 630 ft E of the site
Private Water Supply Well (labeled WSW-6)	741 Hwy 378, Edgefield, SC 29824	Approximately 348 ft E of the site
Private Water Supply Well (labeled WSW-7)	719 Hwy 378, Edgefield, SC 29824	Approximately 455 ft WNW of the site
Private Water Supply Well (labeled WSW-8)	724 Hwy 378 East, Edgefield, SC 29824	Approximately 268 ft SW of the site
Private Water Supply Well (labeled WSW-9)	71 Faulkner Mountain Rd, Edgefield, SC 29824	Approximately 625 ft SW of the site
Private Water Supply Well (labeled WSW-10)	68 Faulkner Mountain Rd, Edgefield, SC 29824	Approximately 470 ft SSW of the site
Private Water Supply Well (labeled WSW-11)	66 Faulkner Mountain Rd, Edgefield, SC 29824	Approximately 545 ft SSW of the site
Private Water Supply Well (labeled WSW-12)	64 Faulkner Mountain Rd, Edgefield, SC 29824	Approximately 572 ft SSW of the site
Private Water Supply Well (labeled WSW-13)	64 Faulkner Mountain Rd, Edgefield, SC 29824	Approximately 716 ft SSW of the site
Private Water Supply Well (labeled WSW-14)	54 Faulkner Mountain Rd, Edgefield, SC 29824	Approximately 857 ft SSW of the site
Private Water Supply Well (labeled WSW-15)	57 Faulkner Mountain Rd, Edgefield, SC 29824	Approximately 990 ft SSW of the site
Disconnected Private Water Supply Well (labeled WSW-3)	744 Hwy 378 East, Edgefield, SC 29824	Approximately 554 ft ESE of the site
Disconnected private water supply well	unknown	Approximately 615 ft NNW of the site
Disconnected private water supply well	724 Hwy 378 East, Edgefield, SC 29824	Approximately 444 ft SW of the site

Disconnected private water supply well	730 Hwy 378 East, Edgefield, SC 29824	Approximately 189 ft S of the site
Disconnected private water supply well	732 Hwy 378 East, Edgefield, SC 29824	Approximately 352 ft S of the site
Disconnected private water supply well	758 Hwy 378 East, Edgefield, SC 29824	Approximately 678 ft SE of the site

Underground telephone lines ran along the south side of Highway 378 and turned towards the southwest to the residences located on the south side of Highway 378, as shown in **Figure 3.**

The applicable portion of the Edgefield County Tax Map has been included as **Figure 2.** Property owner's names and addresses of land in the vicinity of the subject site are summarized in **Table 1** and are keyed to **Figure 2.** A scaled Site Plan has been included as **Figure 3.** The Surveyed Map on which **Figure 3** was based has been included as **Appendix F.**

2.0 ASSESSMENT INFORMATION

2.1 Site specific geology and hydrogeology

The project area was underlain at shallow depths by light brown silt and silty clay. Rock and partially weathered rock were encountered below the silt and clay at varying depths throughout the study area. Partially weathered rock was first encountered at depths ranging from approximately 26 feet (MW-18 and MW-27) to 50 feet (TW-9) across the subject area. Overall, partially weathered rock was first encountered at or below a depth of 30 feet below grade onsite and in locations south of the site. Partially weathered rock was first encountered at more shallow depths in locations west, southwest, and southeast of the site. Rock was first encountered at depths ranging from approximately 30 feet (MW-8) to 68 feet (TW-3) across the subject area. The depths to rock observed during shallow monitoring well installation varied from approximately 30 feet to 39 feet below grade. Overall, rock was encountered a bit deeper onsite and south of the site as compared to other areas (north, east, west, southwest, and southeast). Depths to rock were observed at shallower depths (between 32 feet and 35 feet below grade) during telescoping well installation in areas southwest and southeast of the site, as compared to telescoping wells installed onsite and in areas south of the site. The largest discrepancy was observed at telescoping well TW-3, located southwest of the site, where rock was not encountered until a depth of 68 feet below grade.

The percentages of gravel, sand, and silt/clay in a soil sample collected during Tier I well installation activities from monitoring well MW-3 at a depth of 40 feet below grade were 10.0%, 39.8%, and 50.1%, respectively. The percentages of gravel, sand, silt, and clay in a soil sample collected during Tier II well installation activities from MW-12 at a depth of 30 feet below grade were 4.1%, 27.5%, 50.7%, and 17.7%, respectively. A soil sample was proposed for collection during installation of monitoring well TW-5 at a depth within the well's screened interval. This sample was subsequently collected at a depth of 55 feet below grade. Following discussions with SCDHEC, the sample was not submitted for laboratory grain size analysis, as this sample consisted mainly of pulverized rock particles from the well drilling process.

Depths to groundwater were measured in wells MW-1 through MW-19 and TW-1 through TW-8 on October 18, 2010. Depths to groundwater measured in the shallow monitoring wells ranged from 22.02 feet (MW-18) to 30.79 feet (MW-16). Water table elevations in the shallow monitoring wells ranged from 64.52 feet (MW-9) to 75.47 feet (MW-1) relative to a temporary benchmark with an assumed datum elevation of 100.00 feet above mean sea level. Additional monitoring wells were installed on November 29 through December 3, 2010 and were subsequently gauged on December 6, 2010. Depths to groundwater measured in these additional shallow monitoring wells ranged from 28.48 feet (MW-27) to 41.77 feet (MW-20). Well MW-20 was installed with a three foot stickup riser. However, when this three foot difference was considered, well MW-20 still showed the deepest water table reading of the wells gauged on December 6, 2010. Water table elevations in the additional shallow monitoring wells ranged from 66.83 feet (MW-24) to 70.75 feet (MW-23) relative to a temporary benchmark with an assumed datum elevation of 100.00 feet above mean sea level. The shallow groundwater elevations obtained in October 2010 were contoured to develop a groundwater flow map. Due to a significant change in water table elevations between October and December, the data obtained in December 2010 could not be integrated into this map. Based on the October 2010 shallow monitoring well data, groundwater flow in the surficial aquifer was generally toward the south, southwest, and northeast. The horizontal hydraulic gradients were approximately 0.009 feet per foot (ft/ft) towards the south from well MW-3 to well MW-16, 0.031 ft/ft towards the southwest from well MW-1 to well MW-9, and 0.014 ft/ft towards the northeast from well MW-1 to well MW-5. The Groundwater Elevation Map with posted October and December 2010 shallow monitoring well data and contoured October 2010 data has been included as **Figure 4.** A summary of groundwater elevation data has been presented in **Table 3.**

Depths to groundwater measured on October 18, 2010 in the telescoping monitoring wells ranged from 25.39 feet (TW-3) to 50.90 feet (TW-7). Water table elevations in the telescoping monitoring wells ranged from 47.23 feet (TW-7) to 73.93 feet (TW-5) relative to a temporary benchmark with an assumed datum elevation of 100.00 feet above mean sea level. However, based on the range of the telescoping well groundwater elevations, it is possible that the water table was not stabilized at the time of measurement. It is also possible that the source of groundwater in some of the telescoping wells may have been from rock fractures and the measured depths to water did not represent the true water table. Subsequent gauging data may help determine the reason for this potential discrepancy. Additional monitoring wells were installed on November 29 through December 3, 2010 and were subsequently gauged on December 6, 2010. The depth to groundwater measured in additional telescoping monitoring well TW-9 was 28.96 feet and the water table elevation was 67.96 feet relative to a temporary benchmark with an assumed datum elevation of 100.00 feet above mean sea level. The deep groundwater elevations obtained in October 2010 were contoured to develop a groundwater flow map. Due to a significant change in water table elevations between October and December, the data obtained in December 2010 could not be integrated into this map. Based on the October 2010 telescoping monitoring well data, groundwater flow in the deep aquifer was generally toward the southwest and east. The horizontal hydraulic gradients were approximately 0.043 ft/ft towards the southwest from well TW-1 to well TW-4 and 0.131 ft/ft towards the east from well TW-5 to well TW-7. The Groundwater Elevation Map with posted October and December 2010 telescoping monitoring well data and contoured October 2010 data has been included as **Figure 5.** A summary of groundwater elevation data has been presented in **Table 3.**

Slug tests were performed on monitoring wells MW-2 and MW-3 during Tier I assessment activities conducted in May 2010. Calculated hydraulic conductivities ranged from 0.1091 feet/day to 0.1778 feet/day. Slug tests were performed on monitoring wells MW-12 and MW-17 during Tier II assessment activities. The hydraulic conductivities estimated from the slug tests were 0.5359 feet per day (MW-12) and 0.2019 feet per day (MW-17). Raw data and graphs from the slug tests conducted during the Tier II assessment activities have been included as **Appendix G.**

2.2 Monitoring Well Installation

Due to repeated drilling refusal and depth to rock encountered during Tier I assessment activities, groundwater field screening was not conducted prior to well installation during Tier II assessment activities. Therefore, monitoring well locations and termination depths were proposed at onsite and offsite positions in an effort to horizontally and vertically delineate dissolved phase contamination in the groundwater and to serve as compliance points between the site and local private water supply wells. Multiple proposed drilling locations were adjusted in the field for the presence of utilities, trees, buildings, and other obstructions. Drilling and installation of shallow monitoring wells MW-6 through

MW-19 and telescoping monitoring wells TW-1 through TW-8 occurred from October 4 through 15, 2010.

Soil samples were proposed for collection during the installation of shallow monitoring wells MW-6 through MW-8 to continue delineation of the sorbed contamination identified during Tier I assessment activities. Samples were collected every five feet during well installation activities and screened in the field for volatile organic compounds with a Photo-Ionization Detector (PID). The soil sample from each location that displayed the highest PID reading above the water table was submitted for laboratory analysis of BTEX compounds (benzene, toluene, ethylbenzene, and xylenes) and naphthalene using EPA Method 8260B. While installing wells MW-12 and MW-13, a petroleum odor was observed in the soil at a depth of 20 feet below grade. Grab samples were collected and screened with a PID. The results were provided to SCDHEC, who requested the samples be submitted for laboratory analysis of BTEX compounds and naphthalene using EPA Method 8260B. The soil laboratory reports are included in **Appendix C** and the data is provided in **Table 2**.

Based on observations from the Tier I well installation activities, shallow wells MW-6 through MW-19, installed during the Tier II assessment, were drilled to 35 feet or 40 feet depending on apparent topographic elevation changes throughout the area. Due to known water table fluctuations (depth to water in the pre-existing wells dropped by approximately 10 feet since the May 2010 Tier I assessment), the shallow wells were installed with 15 foot screen sections to ensure the water table would be bracketed by the screened interval in the future. Each well was monitored for depths to water prior to completion and final depths were determined by these water table measurements. The completed depths of the shallow wells ranged from 35 feet to 40 feet below grade. Telescoping monitoring wells TW-1 through TW-8 were installed and paired with shallow monitoring wells MW-1, MW-3, MW-9, MW-10, MW-12, MW-16, MW-17, and MW-19. Following discussions with SCDHEC, the proposed telescoping well's termination depth of 80 feet was adjusted based on observed depth to rock. Outer casing depths were based on depth to rock and/or the total depth of the telescoping well's shallow well pair to ensure sufficient vertical separation between the two monitoring points. As directed by SCDHEC, inner casings were installed eight feet below the well's outer casing depth. Telescoping wells TW-1 through TW-8 were installed to total depths ranging from 58 feet to 80 feet below grade, and were constructed with five foot screened sections.

Following installation, each well was developed until the purged water was free of sediment or until the well was purged dry. A comprehensive site survey was conducted on October 26, 2010 and a complete site plan was prepared.

Groundwater samples were collected from the monitoring wells and telescoping wells on October 18 and 19, 2010. Following receipt of the groundwater analytical results, SCDHEC directed the installation of additional shallow and telescoping monitoring wells. Nine shallow monitoring wells (MW-20 through MW-28) and one telescoping monitoring well (TW-9) were successfully installed on November 29 through December 3, 2010. Following well installation, each well was developed until the purged water was free of sediment or until the well was purged dry. One additional proposed shallow well could not be installed without removal of trees in a wooded area. Following a discussion with SCDHEC, it was decided that this well could be omitted from this scope of work. An additional telescoping monitoring well (TW-10) was installed to a depth of 80 feet below grade in the proposed location near shallow well MW-24. Two days following installation, this well had produced less than one foot of water. As directed by SCDHEC, groundwater samples were collected from the well and the boring was subsequently abandoned due to insufficient water for well completion.

The completed depths of shallow wells MW-20 through MW-28 ranged from 35 feet to 42 feet below grade, depending on changes in groundwater and topographic elevations. Each shallow monitoring well was installed with a 15 foot screened section. Competent rock was not encountered during installation of telescoping well TW-9. The outer casing was therefore installed to a depth of 72 feet below grade and the inner casing was installed to the proposed depth of 80 feet below grade. Telescoping well TW-9 was installed with a five foot screened section. Rock was encountered at a depth of 35 feet below grade during installation of telescoping well TW-10. Water was not encountered while drilling the inner casing to a depth of 80 feet. Due to insufficient water in the boring, this well was abandoned after a grab groundwater sample was collected.

Well logs developed during completion of the monitoring wells have been included as **Appendix A.** The driller's well construction records for the monitoring wells have been included as **Appendix B**. Soil cuttings and wastewater generated during monitoring well installation and development activities were placed in 55-gallon drums and staged onsite for subsequent transport to a licensed facility for disposal. The disposal manifests are included as **Appendix H.**

On December 9, 2010, a professional surveyor incorporated the newly installed wells into the pre-existing survey. A complete site plan was prepared and is included as **Figure 3.** The Surveyed Map on which **Figure 3** was based has been included as **Appendix F.**

2.3 Groundwater Sampling

A comprehensive groundwater gauging and sampling event was conducted on October 18 and 19, 2010. Samples were collected from monitoring wells MW-2 through MW-19 and TW-1 through TW-8. Samples were also collected from water supply wells WSW-1 through WSW-15. A groundwater sample was not collected from pre-existing monitoring well MW-1 due to the presence of free product.

Additional monitoring wells MW-20 through MW-28 and TW-9 were gauged and sampled on December 6, 2010. A grab sample was also collected from telescoping well TW-10 on December 2, 2010 before it was abandoned.

Each monitoring well was sampled using a new, disposable 1 ½-inch diameter 1-liter capacity PVC bailer attached to a nylon cord. Prior to sample collection, new wells MW-6 through MW-28 and TW-1 through TW-9 were developed and purged by removal of at least three well casing volumes of water, wherever possible. Pre-existing monitoring well MW-2 was also purged prior to sample collection, as the construction of this well was unknown and it could not be verified whether the water table was bracketed by the screened interval. Pre-existing monitoring wells MW-3 through MW-5 were not purged prior to sampling, as the water table in these wells was bracketed by the screened interval of each well. Each water supply well was purged at the sample location for approximately 10 minutes prior to sample collection. Measurements of pH, conductivity, temperature, oxidation reduction potential, turbidity, and dissolved oxygen were recorded prior to purging and after removal of each well casing volume. Field information was transcribed onto SCDHEC Field Sampling Summary Sheets which are included as **Appendix D.**

After collection, the groundwater samples were placed into an iced cooler and delivered to Pace Analytical of Huntersville, NC. Pace analyzed the groundwater samples from wells MW-2 through MW-28 and TW-1 through TW-9 for BTEX compounds, MTBE, naphthalene, 1,2-DCA, and eight oxygenates using EPA Method 8260B and EDB using EPA Method 8011. The groundwater samples collected from newly installed monitoring wells MW-6 through MW-28 and TW-1 through TW-9 were also analyzed for total lead using EPA Method 6010. The grab sample collected from TW-10 was analyzed for BTEX compounds, MTBE, naphthalene, 1,2-DCA, and eight oxygenates using EPA Method 8260B and EDB using EPA Method 8011. There was insufficient water to collect a lead sample from TW-10. Pace analyzed the groundwater samples from water supply wells WSW-1 through WSW-15 for BTEX compounds, MTBE, naphthalene, and 1,2-DCA using EPA Method 8260B and EDB using EPA Method 8011. The laboratory analytical reports have been included in **Appendix E.** Tabular results have been included in **Table 4** and **Table 5.** A map displaying contaminants of concern data has been included as **Figure 6.** A map displaying eight oxygenates data has been included as **Figure 7.**

Purge water generated during groundwater sampling activities was placed in 55-gallon drums and staged onsite for subsequent transport to a licensed facility for disposal. The disposal manifests are included as **Appendix H.**

The October 19, 2010 private water supply well analytical data was forwarded to SCDHEC upon receipt on October 26, 2010. Concentrations of contaminants of concern were reported above laboratory reporting limits in several of the water supply well samples. The water supply wells with concentrations above laboratory reporting limits were re-sampled by SCDHEC to verify the results obtained by ECS. Based on the results, SCDHEC directed ECS to install Granular Activated Carbon (GAC) units on water supply wells WSW-1 and WSW-8. GAC units were installed on water supply wells WSW-1 and WSW-8 on November 18, 2010 and November 12, 2010, respectively. Following installation, pre-GAC and post-GAC groundwater samples were collected. Additional information pertaining to the GAC installations and subsequent sampling can be found in the individual reports associated with these field activities, each dated November 23, 2010.

As directed by SCDHEC, ECS collected groundwater samples from water supply wells WSW-2 through WSW-4, WSW-6, WSW-7, WSW-9 through WSW-12, and WSW-15 for analysis of eight oxygenates using EPA Method 8260B on December 8, 2010 to complete the well's data sets. Samples were not collected from water supply wells WSW-1 and WSW-8, as eight oxygenates data had been obtained during the GAC installation sampling. Samples were not collected from water supply wells WSW-13 and WSW-14, as eight oxygenates data had been obtained from these wells during the verification sampling conducted by SCDHEC. A groundwater sample could not be collected from water supply well WSW-5 for analysis of eight oxygenates on December 8, 2010, as the well pump had been disconnected but not removed from the well. A sign in front of the residence indicated that the home was for sale. Due to unseasonably cold temperatures, multiple sample locations were frozen on the day of sampling. A sample was collected from water supply well WSW-2 after plumbers cut open frozen pipes for repairs. Sufficient water was obtained from the broken pipes for sample collection. A sample was collected from indoor plumbing from water supply well WSW-9 due to frozen outdoor piping. Samples were collected from wells WSW-11, WSW-12, and WSW-15 at spigots attached to the respective homes, as the sample ports on the holding tanks were frozen. The laboratory analytical report from the eight oxygenates sampling has been included in **Appendix E.** Tabular results have been included in **Table 5.** A map displaying eight oxygenates data has been included as **Figure 7.**

2.4 Groundwater Quality

Contaminants of Concern

Concentrations of benzene were reported above the SCDHEC May 2001 Risk Based Screening Level (RBSL) in the groundwater samples collected from monitoring wells MW-3 through MW-5, MW-7, MW-12, MW-13, MW-16, and MW-22. Concentrations of toluene were reported above the RBSL in the groundwater samples collected from monitoring wells MW-12 and MW-22. Concentrations of ethylbenzene were reported above the RBSL in the groundwater samples collected from monitoring wells MW-3 and MW-22. A concentration of total xylenes was reported above the RBSL in the groundwater sample collected from monitoring well MW-22. Concentrations of naphthalene were reported above the RBSL in the groundwater samples collected from monitoring wells MW-3, MW-5, MW-12, and MW-22. Concentrations of 1,2 DCA were reported above the RBSL in the groundwater samples collected from monitoring wells MW-2, MW-3, MW-5, MW-12, MW-13, MW-22, MW-24, MW-27, TW-1, and TW-6, and water supply well WSW-8 (pre-GAC installation). Concentrations of EDB were reported above the RBSL in the groundwater samples collected from monitoring wells MW-3, MW-7, MW-12, and MW-22. A concentration of total lead was reported above the RBSL in the groundwater sample collected from monitoring well MW-22.

Concentrations of benzene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-2 and TW-6. Concentrations of toluene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-3, MW-7, MW-13, MW-16, TW-2, and TW-7. Concentrations of ethylbenzene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-5, MW-7, MW-12 through MW-14, and MW-16. Concentrations of total xylenes were reported below the RBSL in the groundwater samples collected from monitoring wells MW-2, MW-3, MW-5, MW-7, MW-12 through MW-14, MW-16, TW-2, and TW-7. Concentrations of MTBE were reported below the RBSL in the groundwater samples collected from monitoring wells MW-3 through MW-6, TW-1, and TW-4, and water supply wells WSW-8 (pre-GAC installation), WSW-13, and WSW-14. Concentrations of naphthalene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-4 and MW-13, and abandoned telescoping monitoring well TW-10. Concentrations of 1,2 DCA were reported below the RBSL in the groundwater samples collected from monitoring wells MW-4, MW-6, MW-7, MW-11, MW-15, MW-16, TW-2, and TW-5, and water supply well WSW-1 (pre-GAC installation). A concentration of EDB was reported below the RBSL in the groundwater sample collected from monitoring well MW-13. A concentration of total lead was reported below the RBSL in the groundwater sample collected from monitoring well MW-17.

Concentrations of the requested method constituents were not reported above the laboratory reporting limits or method detection limits in the groundwater samples collected from monitoring wells MW-8 through MW-10, MW-18 through MW-21, MW-23, MW-25, MW-26, MW-28, TW-3, TW-8, and TW-9, and water supply wells WSW-2 through WSW-7, WSW-9 through WSW-12, and WSW-15.

Eight Oxygenates

Concentrations of TAA were reported above the SCDHEC 2008 Action Level in the groundwater samples collected from monitoring wells MW-3, MW-12, MW-13, MW-16, MW-22, and TW-1, and water supply well WSW-8 (pre-GAC installation).

A concentration of DIPE was reported below the Action Level in the groundwater sample collected from monitoring well MW-3. Concentrations of TBA were reported below the Action Level in the groundwater samples collected from monitoring wells MW-2, MW-3, and MW-12. Concentrations of TAA were reported below the Action Level in the groundwater samples collected from monitoring wells MW-4 through MW-6, and TW-2.

Concentrations of the requested method constituents were not reported above the laboratory reporting limits or method detection limits in the groundwater samples collected from monitoring wells MW-7 through MW-11, MW-14, MW-15, MW-17 through MW-21, MW-23 through MW-28, and TW-3 through TW-9, abandoned telescoping monitoring well TW-10, and water supply wells WSW-1 though WSW-4, WSW-6, WSW-7, WSW-9 through WSW-12, and WSW-15.

A summary of the Chemicals of Concern (CoC) data has been included as **Table 4.** A summary of the oxygenate data has been included as **Table 5.** A groundwater quality map showing the contaminants of concern based on the October through December 2010 data has been included as **Figure 6.** A groundwater quality map showing the eight oxygenates based on the October through December 2010 data has been included as **Figure 7.** Groundwater sampling field data sheets from the October and December 2010 sampling events have been included as **Appendix D.** Complete reports of laboratory analyses of groundwater samples collected during the October and December 2010 sampling events, along with chain-of-custody documentation, have been included in **Appendix E.** The disposal manifests are included as **Appendix H.**

3.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the findings of the Tier II assessment at the 378 Truck Stop site, the following conclusions and recommendations are presented:

- Multiple private water supply wells were identified within 1,000 feet of the site and a few were found to be impacted. Due to the potential for concentration fluctuations over time, and because municipal water is not currently available in the area, groundwater from the water supply wells should be closely monitored to protect human health.
- The monitoring wells installed during this Tier II assessment appear to have delineated the dissolved phase contamination. Contaminants of concern seem to be moving primarily towards the south, which is in agreement with the estimated shallow groundwater flow direction. However, some water may be moving with rock fractures. Fracture analysis may be warranted in the future to better understand groundwater flow in the area, particularly in the deeper wells.
- Additional assessment may be required at the residence located across the street from the subject site (730 Highway 378). Dissolved concentrations reported in the groundwater samples collected from shallow monitoring well MW-22 were the highest of any well associated with the monitoring network.
- Remedial efforts in the form of Aggressive Fluid/Vapor Recovery (AFVR) events are recommended to reduce dissolved concentrations in groundwater while a more comprehensive remedial strategy is developed for the site that is protective of human health.

4.0 LIMITATIONS

This report has been prepared for the exclusive use of Wilkerson Fuel Company, Inc. for specific application to the referenced site in Edgefield, South Carolina. The assessment was conducted based on the scope of work and level of effort desired by the client and with resources adequate only for that scope of work. Our findings have been developed in accordance with generally accepted standards of geology and hydrogeology practices in the State of South Carolina, available information, and our professional judgment. No other warranty is expressed or implied.

The data that are presented in this report are indicative of conditions that existed at the precise locations sampled and at the time the samples were collected. Additionally, the data obtained from samples would be interpreted as being meaningful with respect to parameters indicated in the laboratory report. No additional information can logically be inferred from these data.

TABLES

TABLE 1
SUMMARY OF ADJACENT PROPERTY OWNERS AND ADDRESSES[1]
378 TRUCK STOP

Parcel Identification	Property Owner Name	Property Owner Mailing Address	Property Address	Water Supply Wells on Property	Groundwater Monitoring Wells Currently Installed on Property	Notes
108-00-00-023-000	Gail A. & Barbara O. Whitmer	1226 Hwy 378 East, Edgefield, SC 29824	731 Hwy 378 East, Edgefield, SC 29824	Possible abandoned WSW	MW-1 through MW-6, MW-21, TW-1, TW-2	SITE
108-00-00-022-000	Gail A. & Barbara O. Whitmer	1226 Hwy 378 East, Edgefield, SC 29824	unknown	WSW-6 & Disconnected WSW	MW-7, MW-8, MW-20, MW-27, MW-28	Wooded Area around site; WSW-6 tag info: Date: 9/14/00, Depth: 400 ft.
108-00-00-034-000	Shirley J. Coates	328 Florence Street NW, Aiken, SC 29801	741 Hwy 378 East, Edgefield, SC 29824	no WSWs identified	-	-
108-00-00-035-000	Betty O. Doolittle	1184 Hwy 378 East, Edgefield, SC 29824	unknown	no WSWs identified	-	-
108-00-00-036-000	21st Mortgage Corporation	620 Market Street #100, Knoxville TN 37902	745 Hwy 378 East, Edgefield, SC 29824	WSW-5	-	WSW-5 tag info: Date: 6/16/07, Depth: 300 ft; well was disconnected from power during 12/8/10 visit
108-00-00-038-000	Northside Volunteer Fire Department	719 Hwy 378 East, Edgefield, SC 29824	719 Hwy 378 East, Edgefield, SC 29824	WSW-7	-	-
109-00-00-022-000	Andrew & Kathalene Stevens	752 Hwy 378 East, Edgefield, SC 29824	752 Hwy 378 East, Edgefield, SC 29824	WSW-4	-	-
109-00-00-024-000	Shirley J. Coates	328 Florence Street NW, Aiken, SC 29801	unknown	no WSWs identified	-	-
109-00-00-025-000	Johnnie Lee Gilliam	5890 Saratoga Drive Crestview, FL 32536	758 Hwy 378 East, Edgefield, SC 29824	Disconnected WSW	-	Abandoned trailer in the woods.
109-00-00-026-000	Hattie and Richard Dormeyer Coates	736 Hwy 378 East, Edgefield, SC 29824	736 Hwy 378 East, Edgefield, SC 29824	WSW-2 & Abandoned WSW	MW-18	-
109-00-00-028-000	Leroy Diggs	Post Office Box 25664, Los Angeles, CA 90025	744 Hwy 378 East, Edgefield, SC 29824	WSW-3 (Disconnected)	-	Not occupied
109-00-01-001-000	Hattie Scurry, etal	730 Hwy 378 East, Edgefield, SC 29824	730 Hwy 378 East, Edgefield, SC 29824	WSW-1 & Disconnected WSW	MW-11 through MW-15, MW-17, MW-22, MW-23, TW-5, TW-7	WSW-1 tag info: Date: 12/91, Depth: 280 ft
109-00-01-002-000	Henry Allen Harling	136 Casbel Ct, Hopkins, SC 29061	unknown	Abandoned WSW	MW-19 and TW-8	Wooded lot behind Scurry residence; resident indicated abandoned WSW is on the corner of the trailer.
109-00-01-003-000	Clifford T. Owdom	Post Office Box 606, Saluda, SC 29138	732 Hwy 378 East, Edgefield, SC 29824	Disconnected WSW	MW-16, MW-25, TW-6	-
109-00-01-004-000	JG and JP Owdom	1226 Hwy 378 East, Edgefield, SC 29824	unknown	no WSWs identified	MW-26 and TW-9	-
109-00-01-006-000	Ulyssess Padgett	62 Faulkner Mountain Rd, Edgefield, SC 29824	62 Faulkner Mountain Rd, Edgefield, SC 29824	no WSWs identified	-	-
109-00-01-007-000	Ida Bryant	54 Faulkner Mountain Rd, Edgefield, SC 29824	54 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-14	-	-
109-00-01-009-000	Derrick Simpkins	64 Faulkner Mountain Rd, Edgefield, SC 29824	64 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-12 and WSW-13	-	-
109-00-01-010-000	Luther Mitchell Life Estate	66 Faulkner Mountain Rd, Edgefield, SC 29824	66 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-11	-	-
109-00-01-011-000	Bennie Culbreath	68 Faulkner Mountain Rd, Edgefield, SC 29824	68 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-10	MW-10, MW-24, TW-4, abandoned TW-10	-
109-00-01-012-000	Sidney L. Gordon	724 Hwy 378 East, Edgefield, SC 29824	724 Hwy 378 East, Edgefield, SC 29824	WSW-8 & Disconnected WSW	MW-9 and TW-3	-
109-00-01-013-000	Johnnie James & Sophie J. Bowman Life Estate	71 Faulkner Mountain Rd, Edgefield, SC 29824	71 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-9	-	-
109-00-01-014-000	Johnnie James, Jr. and Joan P. Bowman	57 Faulkner Mountain Rd, Edgefield, SC 29824	57 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-15	-	-

Notes:
1. Adjacent/adjoining properties are keyed into**Figure 2**.

TABLE 2
SUMMARY OF SOIL ANALYTICAL DATA
CHEMICALS OF CONCERN
378 TRUCK STOP

Sample ID	Date	Depth (feet)	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Naphthalene (mg/kg)
MW-6[1]	10/5/10	5	1.5	<0.0055[2]	<0.0055	<0.0055	<0.0166	<0.0055
MW-7[1]	10/4/10	10	387	<0.0447	0.0346 J[3]	0.0314 J	0.1867	0.0258 J
MW-8[1]	10/6/10	20	0.3	<0.0055	<0.0055	<0.0055	<0.0165	<0.0055
MW-12[4]	10/7/10	20	156	<0.0053	<0.0053	<0.0053	<0.0159	0.0016 J
MW-13[4]	10/5/10	20	92.3	<0.0047	<0.0047	<0.0047	<0.0141	<0.0047
			RBSL[5]	0.0007	1.450	1.150	14.500	0.036

Notes:
1. Soil samples collected every 5 vertical ft during installation of shallow groundwater monitoring wells. Sample depth from each location that displayed the highest PID reading above the water table was submitted for laboratory analysis.
2. Less than the laboratory reporting limit.
3. Estimated value between the method detection limit and laboratory reporting limit.
4. Soil samples collected during installation of shallow groundwater monitoring wells due to observed odor and subsequent PID readings.
5. May 2001 SCDHEC Risk Based Screening Level for sandy soils.

TABLE 3
SUMMARY OF GROUNDWATER ELEVATION DATA[1]
378 TRUCK STOP

Well ID	Date Measured	Top of Casing Elevation (ft)	Depth to Free Product (ft)	Depth to Ground-water (ft)	Free Product Thickness (ft)	Ground-water Elevation[2] (ft)	Well Depth (ft)	Screened Interval (ft)
MW-1	5/25/10 [3]	101.85	15.33	15.37	0.04	86.51	unknown	unknown
	10/18/10 [4]	101.98	26.50	26.54	0.04	75.47		
MW-2	5/25/10	101.02	--	16.82	--	84.20	41.72	unknown
	10/18/10	100.99	--	27.10	--	73.89		
MW-3	5/25/10	101.46	--	17.28	--	84.18	40	10-40
	10/18/10	101.54	--	27.58	--	73.96		
MW-4	5/25/10	100.50	--	16.35	--	84.15	40	10-40
	10/18/10	100.48	--	26.20	--	74.28		
MW-5	5/25/10	104.21	--	27.30	--	76.91	40	20-40
	10/18/10	104.18	--	30.24	--	73.94		
MW-6	10/18/10	102.25	--	28.01	--	74.24	35.05	20.05-35.05
MW-7	10/18/10	99.72	--	25.10	--	74.62	34.92	19.92-34.92
MW-8	10/18/10	99.92	--	25.45	--	74.47	35.08	20.08-35.08
MW-9	10/18/10	94.83	--	30.31	--	64.52	35.17	20.17-35.17
MW-10	10/18/10	99.12	--	29.73	--	69.39	40.16	25.16-40.16
MW-11	10/18/10	102.61	--	28.75	--	73.86	35.23	20.23-35.23
MW-12	10/18/10	103.46	--	29.63	--	73.83	34.99	19.99-34.99
MW-13	10/18/10	101.48	--	27.63	--	73.85	40.19	25.19-40.19
MW-14	10/18/10	103.48	--	29.99	--	73.49	39.74	24.74-39.74
MW-15	10/18/10	103.16	--	30.32	--	72.84	40.13	25.13-40.13
MW-16	10/18/10	101.32	--	30.79	--	70.53	40.11	25.11-40.11
MW-17	10/18/10	98.40	--	23.74	--	74.66	35.02	20.02-35.02
MW-18	10/18/10	95.05	--	22.02	--	73.03	35.67	20.67-35.67
MW-19	10/18/10	101.07	--	27.62	--	73.45	38.57	23.57-38.57
MW-20[5]	12/6/10	110.52	--	41.77	--	68.75	45.05	30.05-45.05
MW-21	12/6/10	101.70	--	32.66	--	69.04	40.16	25.16-40.16
MW-22	12/6/10	105.13	--	34.95	--	70.18	40.09	25.09-40.09
MW-23	12/6/10	100.01	--	29.26	--	70.75	37.24	22.24-37.24
MW-24	12/6/10	99.08	--	32.25	--	66.83	40.13	25.13-40.13
MW-25	12/6/10	101.54	--	32.00	--	69.54	39.98	24.98-39.98
MW-26	12/6/10	97.25	--	29.08	--	68.17	38.74	23.74-38.74
MW-27	12/6/10	97.20	--	28.48	--	68.72	35.10	20.10-35.10
MW-28	12/6/10	101.29	--	33.39	--	67.90	40.03	25.03-40.03
TW-1	10/18/10	101.83	--	28.44	--	73.39	63.27	58.27-63.27
TW-2	10/18/10	101.97	--	29.57	--	72.40	80.23	75.23-80.23
TW-3	10/18/10	95.33	--	25.39	--	69.94	80.62	75.62-80.62
TW-4	10/18/10	99.23	--	43.13	--	56.10	68.56	63.56-68.56
TW-5	10/18/10	103.62	--	29.69	--	73.93	58.38	53.38-58.38
TW-6	10/18/10	101.29	--	31.22	--	70.07	58.55	53.55-58.55
TW-7	10/18/10	98.13	--	50.90	--	47.23	58.94	53.94-58.94

TABLE 3
SUMMARY OF GROUNDWATER ELEVATION DATA[1]
378 TRUCK STOP

Well ID	Date Measured	Top of Casing Elevation (ft)	Depth to Free Product (ft)	Depth to Ground-water (ft)	Free Product Thickness (ft)	Ground-water Elevation[2] (ft)	Well Depth (ft)	Screened Interval (ft)
TW-8	10/18/10	101.03	--	28.18	--	72.85	58.53	53.53-58.53
TW-9	12/6/10	96.92	--	28.96	--	67.96	80.12	75.12-80.12

Notes:
1. Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level; data reported in feet.
2. Groundwater elevations adjusted for the presence of free product, where present, with an assumed density of 0.75 g/cm^3.
3. May 2010 suvey data collected by Environmental Compliance Services, Inc. during Tier I assessment activities.
4. Subsequent October and December 2010 survey data provided by Pittman Professional Land Surveying.
5. MW-20 installed with a 3 ft stickup riser.

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA[1]
CHEMICALS OF CONCERN
378 TRUCK STOP

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Naph-thalene (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Total Lead (ug/L)
MW-1	5/25/10	**Free Product**								
	10/18/10	**Free Product**								
MW-2	5/25/10	**109** [2]	<5.0[3]	114	312	<5.0	**50.6**	NR[4]	0.035	NR
	10/19/10	1.7 J[5]	<5.0	<5.0	2.9 J	<5.0	<5.0	**24.8**	<0.020	NR
MW-3	5/25/10	**239**	139	**815**	4,800	<5.0	**285**	**126**	**0.099**	**28.9**
	10/18/10	**6,820**	343	**981**	6,260	3.4 J	**449**	**561**	**0.31**	NR
MW-4	5/25/10	2.9 J	<5.0	1.4 J	<15.0	<5.0	12.7	3.5 J	<0.020	**62.8**
	10/18/10	**5.7**	<5.0	<5.0	<15.0	3.0 J	3.7 J	4.8 J	<0.020	NR
MW-5	5/25/10	3.6 J	1.8 J	4.0 J	22.3	<5.0	<5.0	4.8 J	<0.020	11.8
	10/18/10	**102**	<5.0	4.1 J	135.9	3.2 J	**43.5**	**6.6**	<0.020	NR
MW-6	10/19/10	<5.0	<5.0	<5.0	<15.0	3.0 J	<5.0	3.5 J	<0.020	<5.0
MW-7	10/19/10	**12.9**	4.6 J	3.2 J	34.2 J	<5.0	<5.0	4.6 J	**0.40**	<5.0
MW-8	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
MW-9	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
MW-10	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	<5.0
MW-11	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	1.3 J	<0.020	<5.0
MW-12	10/19/10	**387**	**1,210**	120	2,650	<5.0	**187**	**24.7**	**4.8**	<5.0
MW-13	10/19/10	**333**	109	58.3	282	<10.0	10.1	**61.9**	0.022	<5.0
MW-14	10/19/10	<5.0	<5.0	2.5 J	9.5 J	<5.0	<5.0	<5.0	<0.020	<5.0
MW-15	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	3.0 J	<0.020	<5.0
MW-16	10/19/10	**246**	26.1	14.3	229.2	<5.0	<5.0	2.5 J	<0.020	<5.0
MW-17	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	4.3 J
MW-18	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	<5.0
MW-19	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
MW-20	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
MW-21	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
MW-22	12/6/10	**11,900**	**29,500**	**1,800**	**11,400**	<100	**522**	**463**	**122**	**15.3**
MW-23	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
MW-24	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**6.7**	<0.020	<5.0
MW-25	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
MW-26	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
MW-27	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**6.4**	<0.020	<5.0
MW-28	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
TW-1	10/18/10	<5.0	<5.0	<5.0	<15.0	5.7	<5.0	**64.2**	<0.020	<5.0
TW-2	10/19/10	<5.0	3.4 J	<5.0	2.8 J	<5.0	<5.0	4.2 J	<0.020	<5.0
TW-3	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
TW-4	10/19/10	<5.0	<5.0	<5.0	<15.0	2.9 J	<5.0	<5.0	<0.019	<5.0
TW-5	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	1.7 J	<0.020	<5.0
TW-6	10/19/10	1.5 J	<5.0	<5.0	<15.0	<5.0	<5.0	**5.1**	<0.020	<5.0
TW-7	10/19/10	<5.0	1.9 J	<5.0	5.6 J	<5.0	<5.0	<5.0	<0.020	<5.0
TW-8	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	<5.0
TW-9	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA[1]
CHEMICALS OF CONCERN
378 TRUCK STOP

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Naph-thalene (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Total Lead (ug/L)
TW-10[6]	12/2/10	<5.0	<5.0	<5.0	<15.0	<5.0	2.9 J	<5.0	<0.020	NR
WSW-1	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	2.1 J	<0.020	NR
WSW-1 pre GAC[7]	11/18/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	2.5 J	<0.019	NR
WSW-1 post GAC	11/18/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-2	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-3	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
WSW-4	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-5	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
WSW-6	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-7	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-8	10/19/10	<5.0	<5.0	<5.0	<15.0	3.6 J	<5.0	**9.2**	<0.020	NR
WSW-8 pre GAC[8]	11/12/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**7.5**	<0.020	NR
WSW-8 post GAC	11/12/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
WSW-9	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
WSW-10	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
WSW-11	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-12	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-13	10/19/10	<5.0	<5.0	<5.0	<15.0	3.2 J	<5.0	<5.0	<0.020	NR
WSW-14	10/19/10	<5.0	<5.0	<5.0	<15.0	4.0 J	<5.0	<5.0	<0.020	NR
WSW-15	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	RBSL[9]	5	1,000	700	10,000	40	25	5	0.05	15

Notes:

1. Analyses for BTEX compounds, MTBE, naphthalene, and 1,2-DCA by EPA Method 8260B; analyses for EDB by EPA Method 8011; analyses for total lead by EPA Method 6010.
2. Concentrations in bold face type exceeded the May 2001 Risk-Based Screening Level.
3. Less than the reporting limit specified in the laboratory report.
4. Analyses not requested.
5. Estimated value below the laboratory reporting limit.
6. TW-10 did not produce enough water and was subsequently abandoned following sample collection.
7. WSW-1 GAC installed on 11/18/10.
8. WSW-8 GAC installed on 11/12/10.
9. May 2001 Risk-Based Screening Level.

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA[1]
EIGHT OXYGENATES
378 TRUCK STOP

Well ID	Date Sampled	Ethanol (ug/L)	Ethyl tert-Butyl Ether (ETBE) (ug/L)	Di-isopropyl Ether (DIPE) (ug/L)	3,3- Dimethyl-1-Butanol (ug/L)	Tertiary Butyl Alcohol (TBA) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	tert-Amyl Alcohol (TAA) (ug/L)	tert-Butyl Formate (TBF) (ug/L)
MW-1	10/18/10	**Free Product**							
MW-2	10/19/10	<200[2]	<10.0	<5.0	<100	254	<10.0	<100	<50.0
MW-3	10/18/10	<200	<10.0	55.7	<100	773	<10.0	**12,900** [3]	<50.0
MW-4	10/18/10	<200	<10.0	<5.0	<100	<100	<10.0	199	<50.0
MW-5	10/18/10	<200	<10.0	<5.0	<100	<100	<10.0	168	<50.0
MW-6	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	131	<50.0
MW-7	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-8	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-9	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-10	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-11	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-12	10/19/10	<200	<10.0	<5.0	<100	83.0 J[4]	<10.0	**267**	<50.0
MW-13	10/19/10	<400	<20.0	<10.0	<200	<200	<20.0	**1,260**	<100
MW-14	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-15	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-16	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	**360**	<50.0
MW-17	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-18	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-19	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-20	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-21	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-22	12/6/10	<4,000	<200	<100	<2,000	<2,000	<200	**9,730**	<1,000
MW-23	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-24	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-25	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-26	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-27	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-28	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
TW-1	10/18/10	<200	<10.0	<5.0	<100	<100	<10.0	**1,180**	<50.0
TW-2	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	95.4 J	<50.0
TW-3	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
TW-4	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
TW-5	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
TW-6	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
TW-7	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
TW-8	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
TW-9	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
TW-10[5]	12/2/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA[1]
EIGHT OXYGENATES
378 TRUCK STOP

Well ID	Date Sampled	Ethanol (ug/L)	Ethyl tert-Butyl Ether (ETBE) (ug/L)	Di-isopropyl Ether (DIPE) (ug/L)	3,3- Dimethyl-1-Butanol (ug/L)	Tertiary Butyl Alcohol (TBA) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	tert-Amyl Alcohol (TAA) (ug/L)	tert-Butyl Formate (TBF) (ug/L)
WSW-1 pre GAC[6]	11/18/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-1 post GAC	11/18/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-2	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-3	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-4	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-5	12/8/10	Not sampled for oxygenates. Well pump electric disconnected.							
WSW-6	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-7	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-8 pre GAC[7]	11/12/10	<200	<10.0	<5.0	<100	<100	<10.0	**262**	<50.0
WSW-8 post GAC	11/12/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-9	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-10	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-11	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-12	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-13	12/8/10	Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10.							
WSW-14	12/8/10	Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10.							
WSW-15	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	Action Levels[8]	10,000	47	150	NA	1,400	128	240	NA

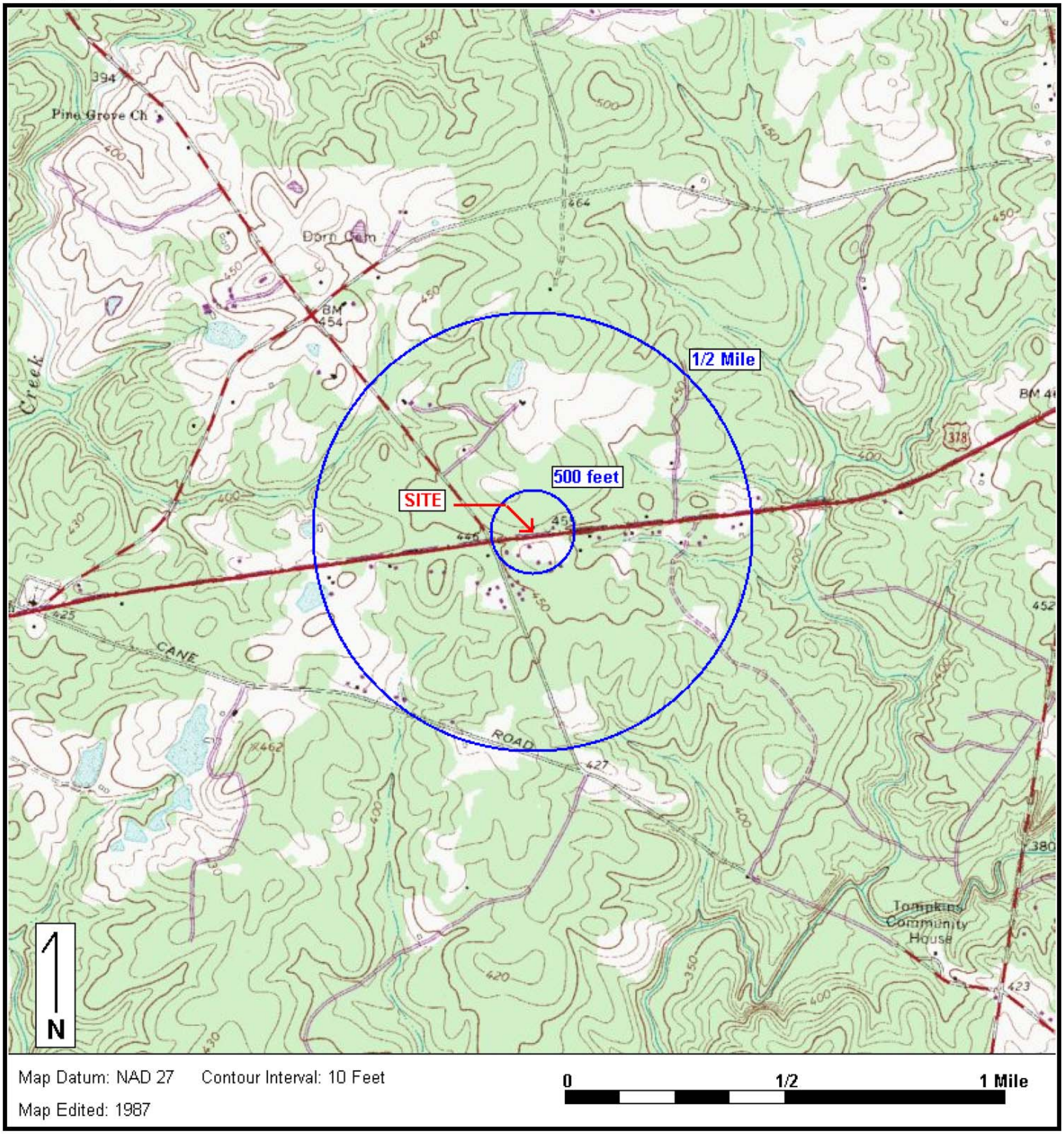
Notes:
1. Analyses for eight oxygenates by EPA Method 8260B.
2. Less than the reporting limit specified in the laboratory report.
3. Concentrations in bold face exceed the 2008 SCDHEC Action Level.
4. Estimated value below the laboratory reporting limit.
5. TW-10 did not produce enough water and was subsequently abandoned following sample collection.
6. WSW-1 GAC installed on 11/18/10.
7. WSW-8 GAC installed on 11/12/10.
8. Action Levels based on SCDHEC Revision 1 dated 8/22/08.

FIGURES

Environmental Compliance Services, Inc.
13504 South Point Boulevard
Charlotte, NC 28273
Phone 704.583.2711
www.ecsconsult.com

378 Truck Stop
731 Highway 378
Edgefield, SC 29824

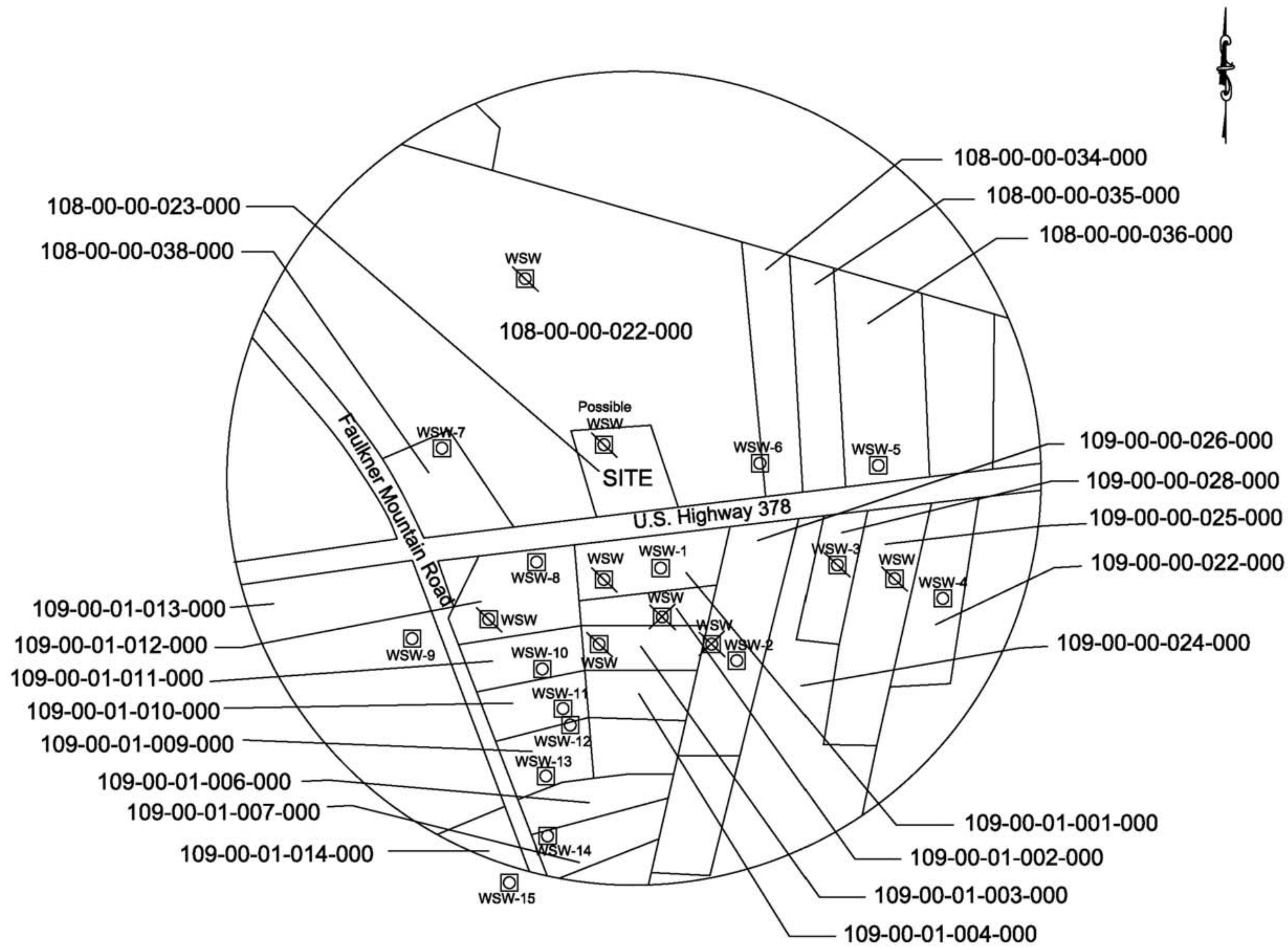
Figure 1: SITE LOCUS



Base Map: U.S. Geological Survey; Quadrangle Location: Owdoms, SC

Lat/Lon: 33º 56' 13" NORTH, 81º 57' 3" WEST - UTM Coordinates: 17 412120 EAST / 3755577 NORTH

Generated By: Rich Walas



Legend

108–00–00–023–000 PARCEL ID

PARCEL BOUNDARY

WSW–1 WATER SUPPLY WELL

DISCONNECTED WSW

ABANDONED WSW

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

ecs
WHERE BUSINESS AND THE ENVIRONMENT CONVERGE
13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL. (704)583-2711 FAX (704)583-2744

PROJECT: **378 Truck Stop**
731 Highway 378
Edgefield, SC

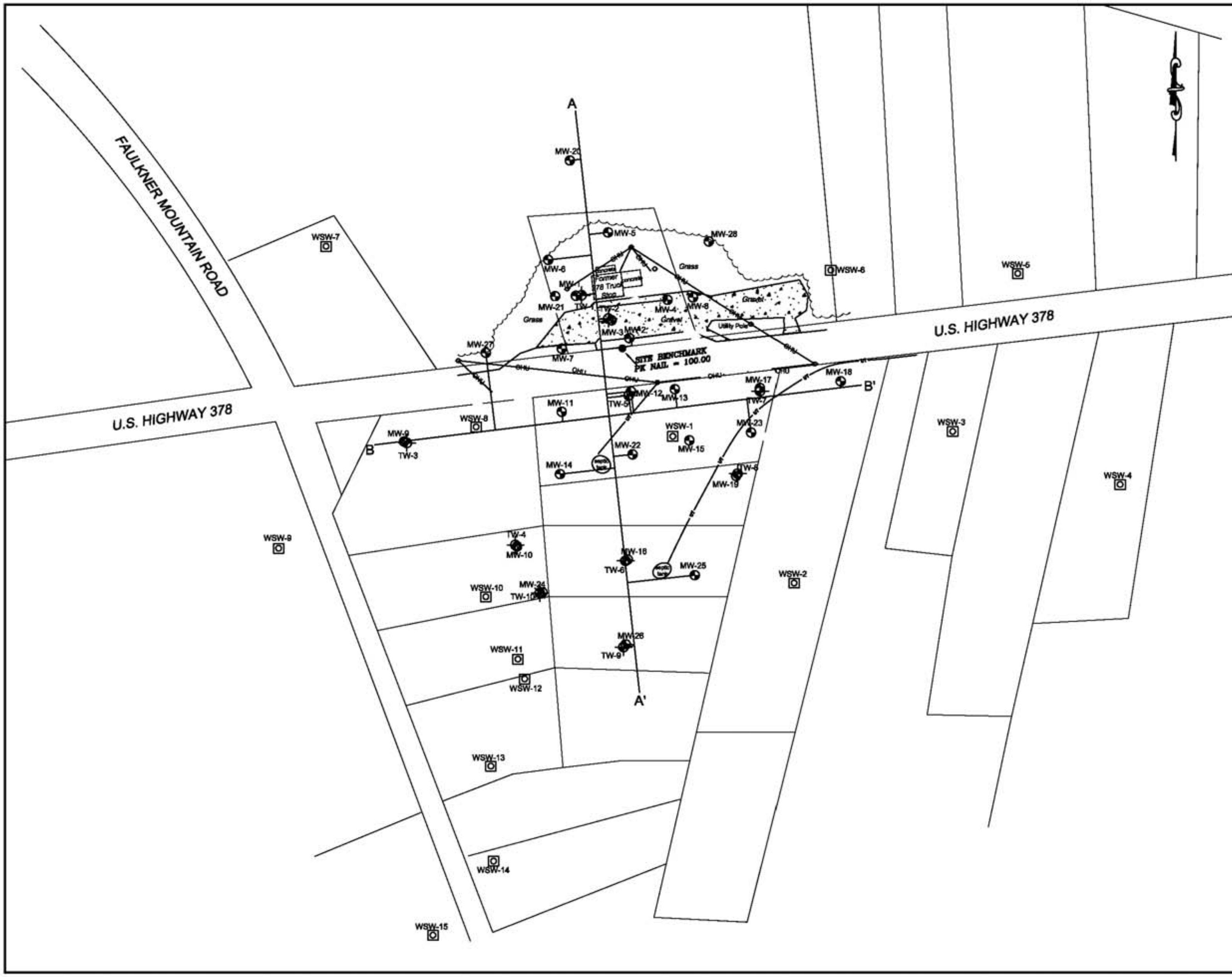
TITLE: **Site Vicinity Map**

CLIENT: **Wilkerson Fuel Company, Inc.**

GRAPHIC SCALE: 250 125 0 125 250

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1"=250'	12/15/10	14-214210	2



Legend

Approximate Property Line
OHU Overhead Electric Line
ut Underground Telephone Line
Utility Pole
Shallow (Water Table) Monitoring Well
Telescoping Monitoring Well
Abandoned Telescoping Monitoring Well
Water Supply Well
MW–1 Well I.D.
A——A' Cross Section Transect

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

ecs
WHERE BUSINESS AND THE ENVIRONMENT CONVERGE
13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL. (704)583-2711 FAX (704)583-2744

PROJECT: **378 Truck Stop**
731 Highway 378
Edgefield, SC

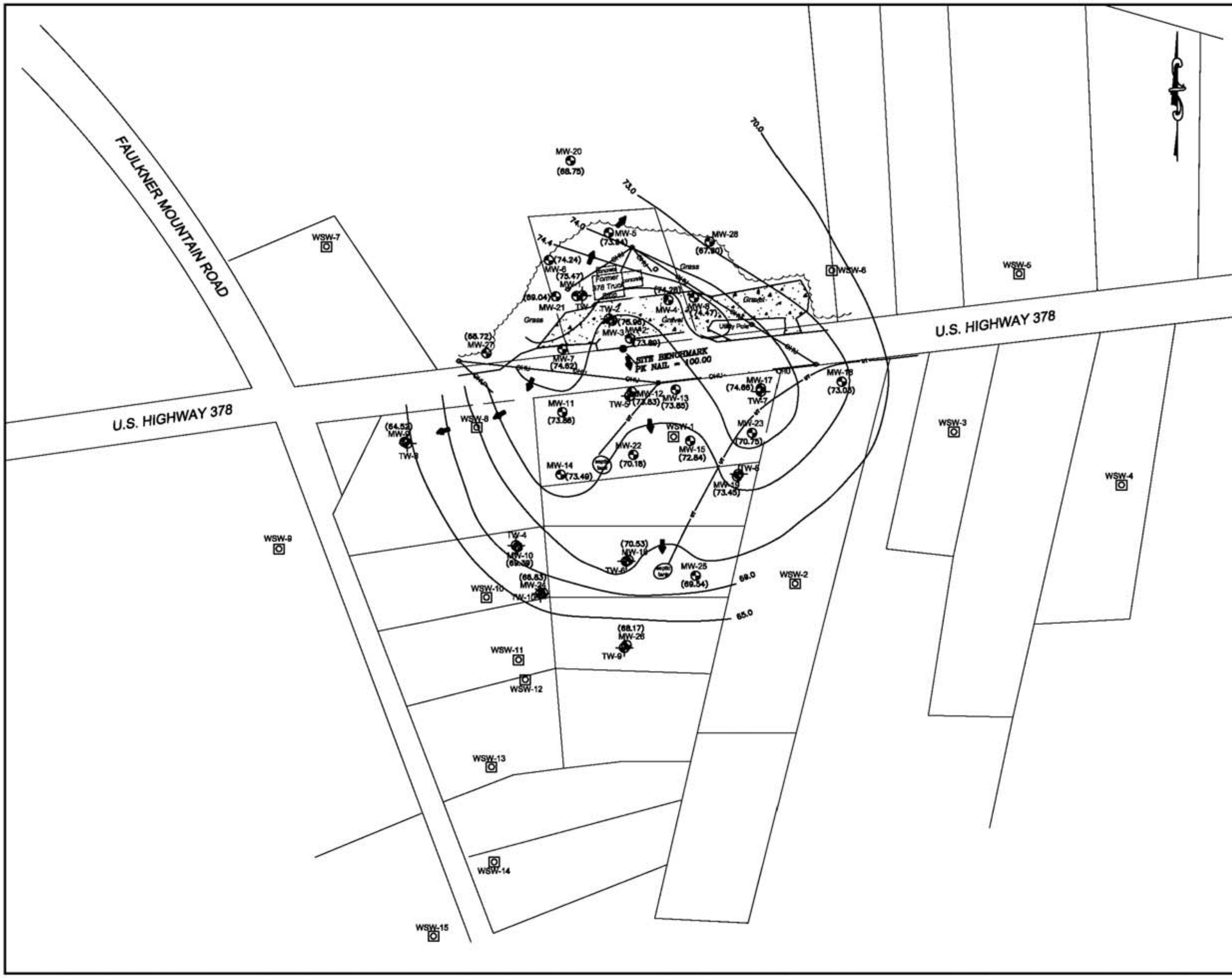
TITLE: **Site Plan**

CLIENT: **Wilkerson Fuel Company, Inc.**

GRAPHIC SCALE: 150 75 0 75 150

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1"=150'	12/15/10	14-214210	3



Legend

- Approximate Property Line
- OHU — Overhead Electric Line
- ut — Underground Telephone Line
- Utility Pole
- Shallow (Water Table) Monitoring Well
- Telescoping Monitoring Well
- Abandoned Telescoping Monitoring Well
- Water Supply Well
- MW-1 Well I.D.
- (73.71) Groundwater Elevation
- 90.00 — Water Table Contour (Dashed where Inferred)
- Flow Direction Indicator

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Groundwater elevations are relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level.

Groundwater elevations are based on measurements made on October 18, 2010 and December 6, 2010.

Water table contours and flow directions assume homogenous, isotropic aquifer conditions and horizontal flow.

Fluctuations in the level of the water table may occur due to factors not accounted for at the time of measurement.

Water table contours are interpolated between data points and inferred in other areas. Elevations from wells gauged on 12/6/10 were not contoured due to a significant change in the water table.

ecs
WHERE BUSINESS AND THE ENVIRONMENT CONVERGE
13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL. (704)583-2711 FAX (704)583-2744

PROJECT:
378 Truck Stop
731 Highway 378
Edgefield, SC

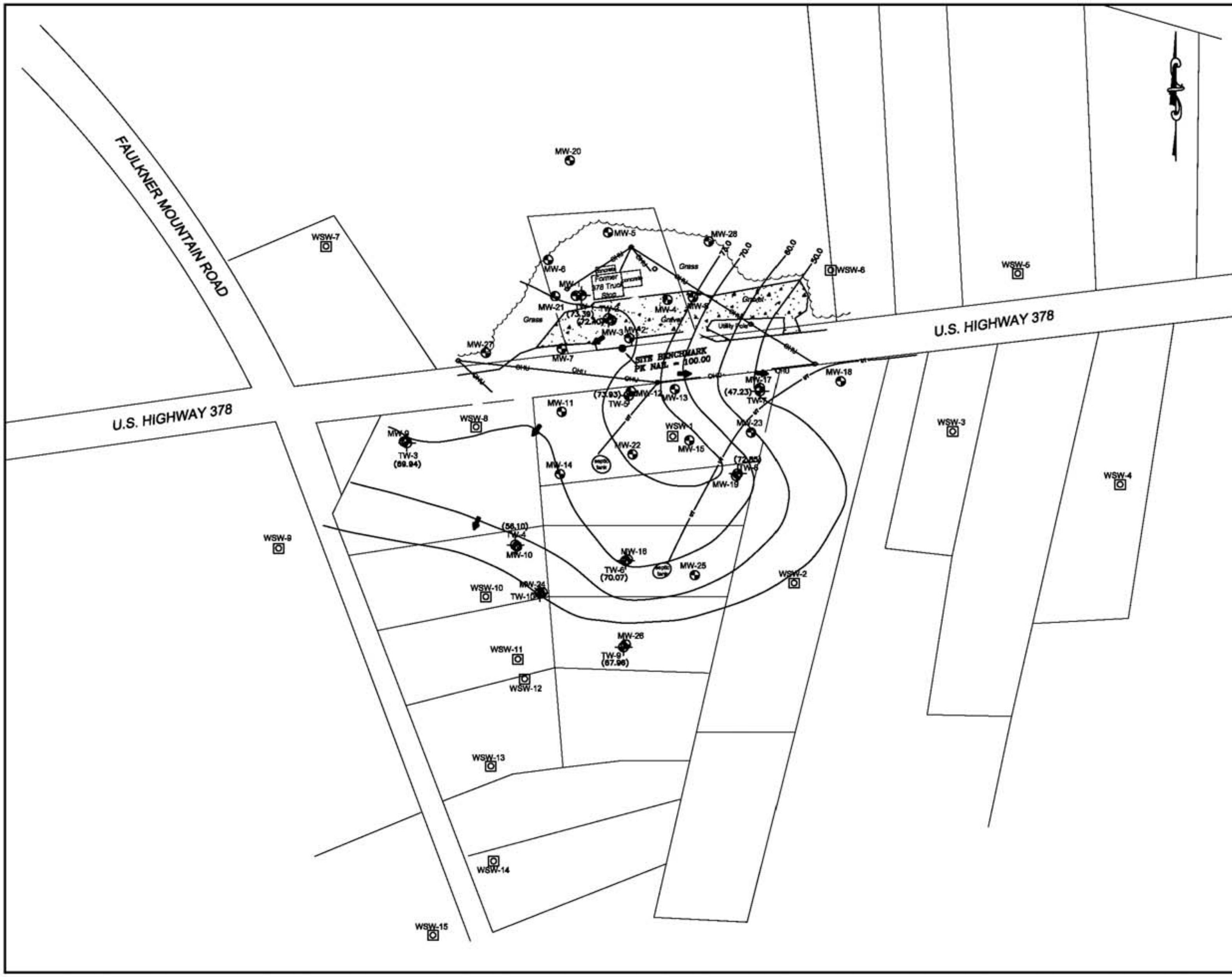
TITLE:
Groundwater Elevation Map – Shallow

CLIENT:
Wilkerson Fuel Company, Inc.

GRAPHIC SCALE: 150 75 0 75 150

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1"=150'	12/15/10	14-214210	4



Legend

- Approximate Property Line
- OHU — Overhead Electric Line
- UT — Underground Telephone Line
- Utility Pole
- Shallow (Water Table) Monitoring Well
- Telescoping Monitoring Well
- Abandoned Telescoping Monitoring Well
- Water Supply Well
- MW-1 — Well I.D.
- (73.71) — Groundwater Elevation
- 90.00 — Water Table Contour (Dashed where inferred)
- Flow Direction Indicator

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Groundwater elevations are relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level.

Groundwater elevations are based on measurements made on October 18, 2010 and December 6, 2010.

Water table contours and flow directions assume homogenous, isotropic aquifer conditions and horizontal flow.

Fluctuations in the level of the water table may occur due to factors not accounted for at the time of measurement.

Water table contours are interpolated between data points and inferred in other areas. Elevations from wells gauged on 12/6/10 were not contoured due to a significant change in the water table.

ecs
WHERE BUSINESS AND THE ENVIRONMENT CONVERGE
13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL. (704)583-2711 FAX (704)583-2744

PROJECT: **378 Truck Stop**
731 Highway 378
Edgefield, SC

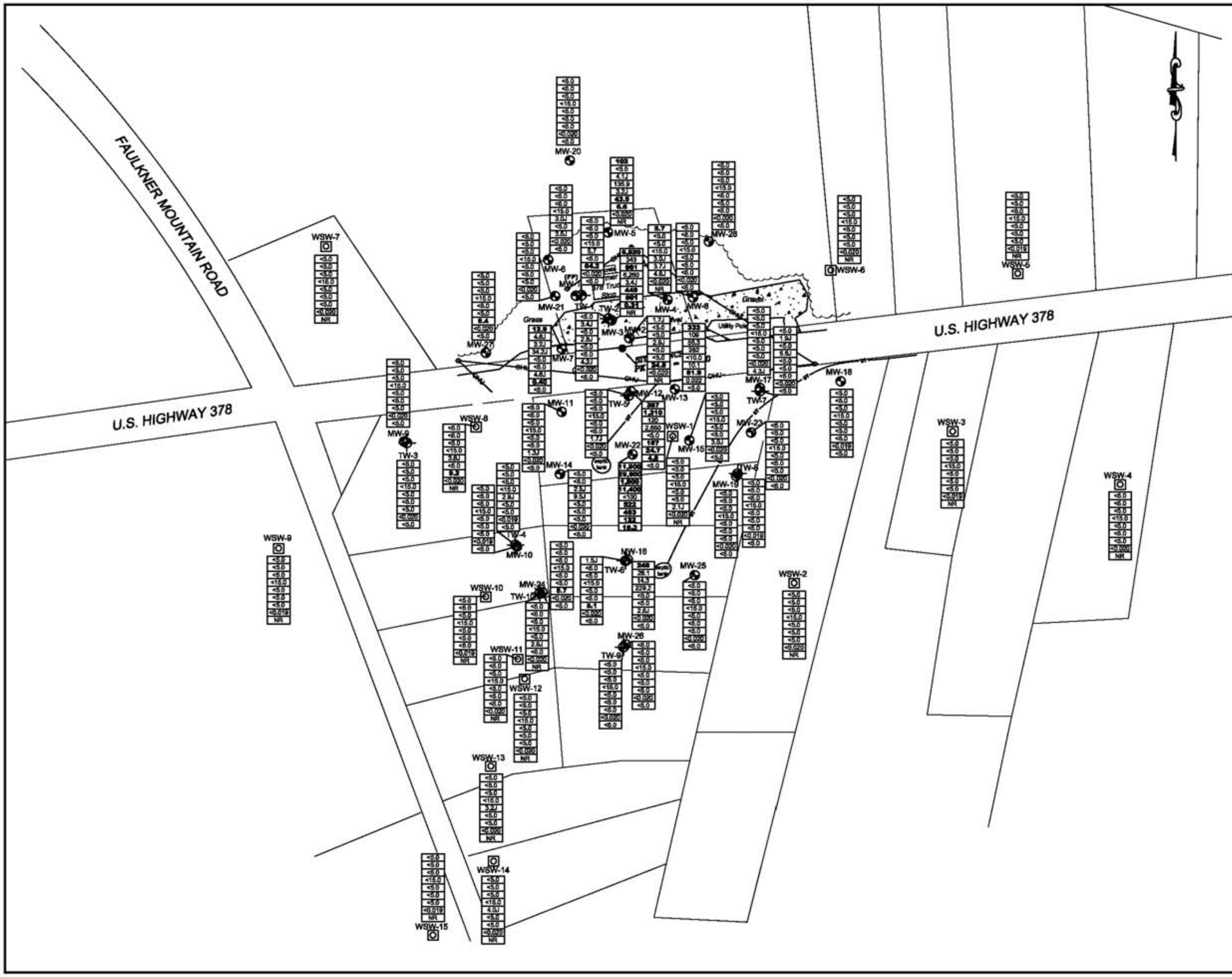
TITLE: **Groundwater Elevation Map – Deep**

CLIENT: **Wilkerson Fuel Company, Inc.**

GRAPHIC SCALE: 150 75 0 75 150

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1"=150'	12/15/10	14-214210	5



Legend

Approximate Property Line

OHU — Overhead Electric Line

Underground Telephone Line

Utility Pole

Shallow (Water Table) Monitoring Well

Telescoping Monitoring Well

Abandoned Telescoping Monitoring Well

Water Supply Well

MW-1 Well I.D.

5	Benzene
1,000	Toluene
700	Ethylbenzene
10,000	Xylenes
40	MTBE
25	Naphthalene
5	1,2-DCA
0.05	EDB
15	Lead

(FP) Free Product

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

All concentrations are measured in micrograms per liter (ug/L).

Groundwater samples collected in October through December 2010 during Tier II activities.

Above concentrations represent May 2001 Risk-Based Screening Levels; Concentrations in bold face type exceeded the RBSL.

J – Estimated value between the method detection limit and the laboratory reporting limit.

<1.0 – Less than the reporting limit specified in the laboratory report.

NR – Not Requested.

ecs

WHERE BUSINESS AND THE ENVIRONMENT CONVERGE

13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL. (704)583-2711 FAX (704)583-2744

PROJECT:

378 Truck Stop

731 Highway 378
Edgefield, SC

TITLE:

Groundwater Quality Map -CoC

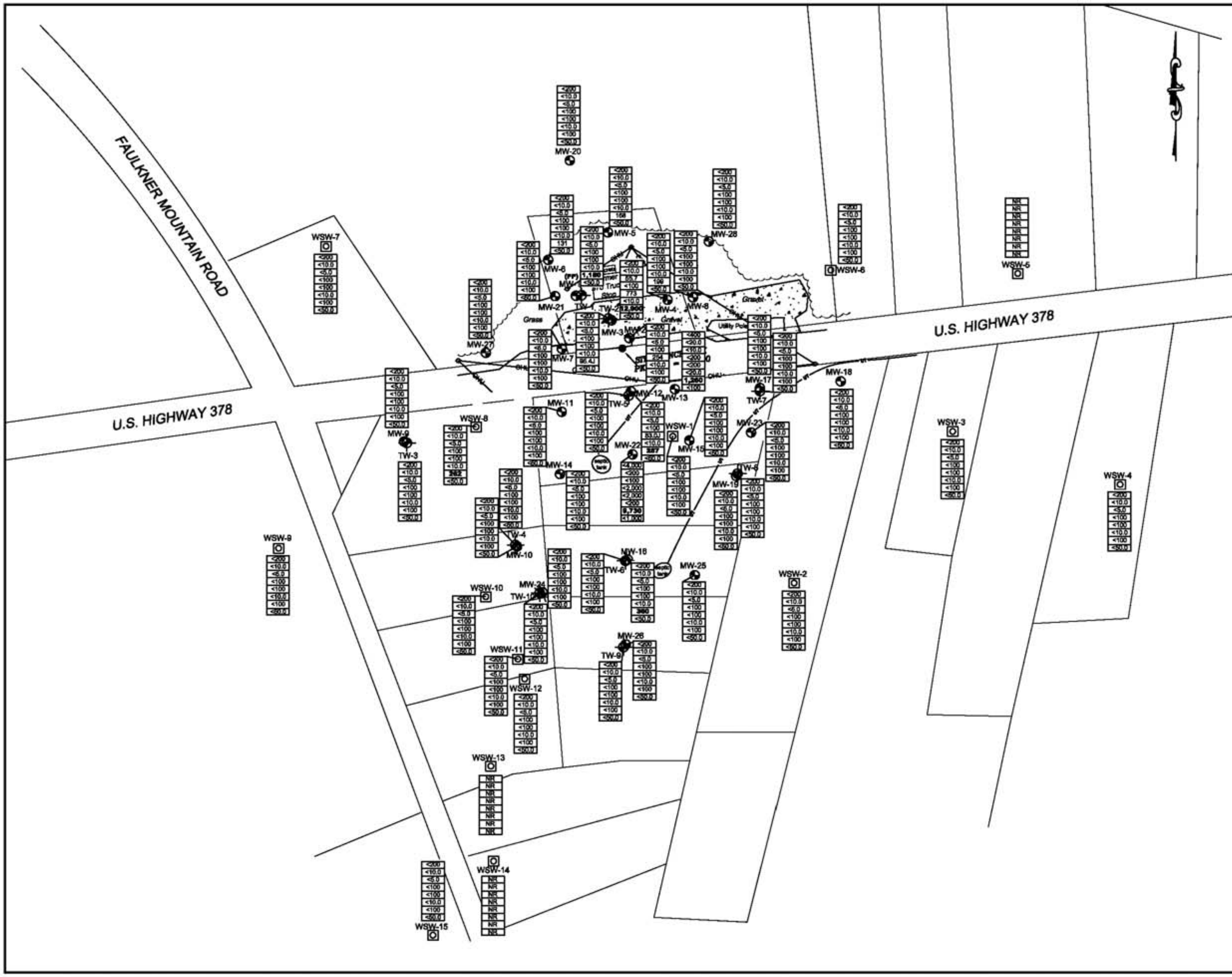
CLIENT:

Wilkerson Fuel Company, Inc.

GRAPHIC SCALE: 150 75 0 75 150

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1"=150'	12/15/10	14-214210	6



Legend

Approximate Property Line

OHU — Overhead Electric Line

UT — Underground Telephone Line

Utility Pole

Shallow (Water Table) Monitoring Well

Telescoping Monitoring Well

Abandoned Telescoping Monitoring Well

Water Supply Well

MW-1 Well I.D.

10,000	Ethanol
47	Ethyl tert-Butyl Ether (ETBE)
150	Di-isopropyl Ether (DIPE)
NA	3,3-Dimethyl-1-Butanol
1,400	Tertiary Butyl Alcohol (TBA)
128	Tert-Amyl Methyl Ether (TAME)
240	tert-Amyl Alcohol (TAA)
NA	tert-Butyl Formate (TBF)

(FP) Free Product

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

All concentrations are measured in micrograms per liter (ug/L).

Groundwater samples collected in October through December 2010 during Tier II activities.

Above concentrations represent 2008 SCDHEC Action Levels; Concentrations in bold face type exceeded the Action Level.

J – Estimated Value between the method detection limit and the reporting limit.

<1.0 – Less than the reporting limit specified in the laboratory report.

NR – Not Requested.

WSW-1 and WSW-8 data represent pre-treatment concentrations.

ecs

WHERE BUSINESS AND THE ENVIRONMENT CONVERGE

13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL. (704)583-2711 FAX (704)583-2744

PROJECT:

378 Truck Stop

731 Highway 378
Edgefield, SC

TITLE:

Groundwater Quality Map – Oxygenates

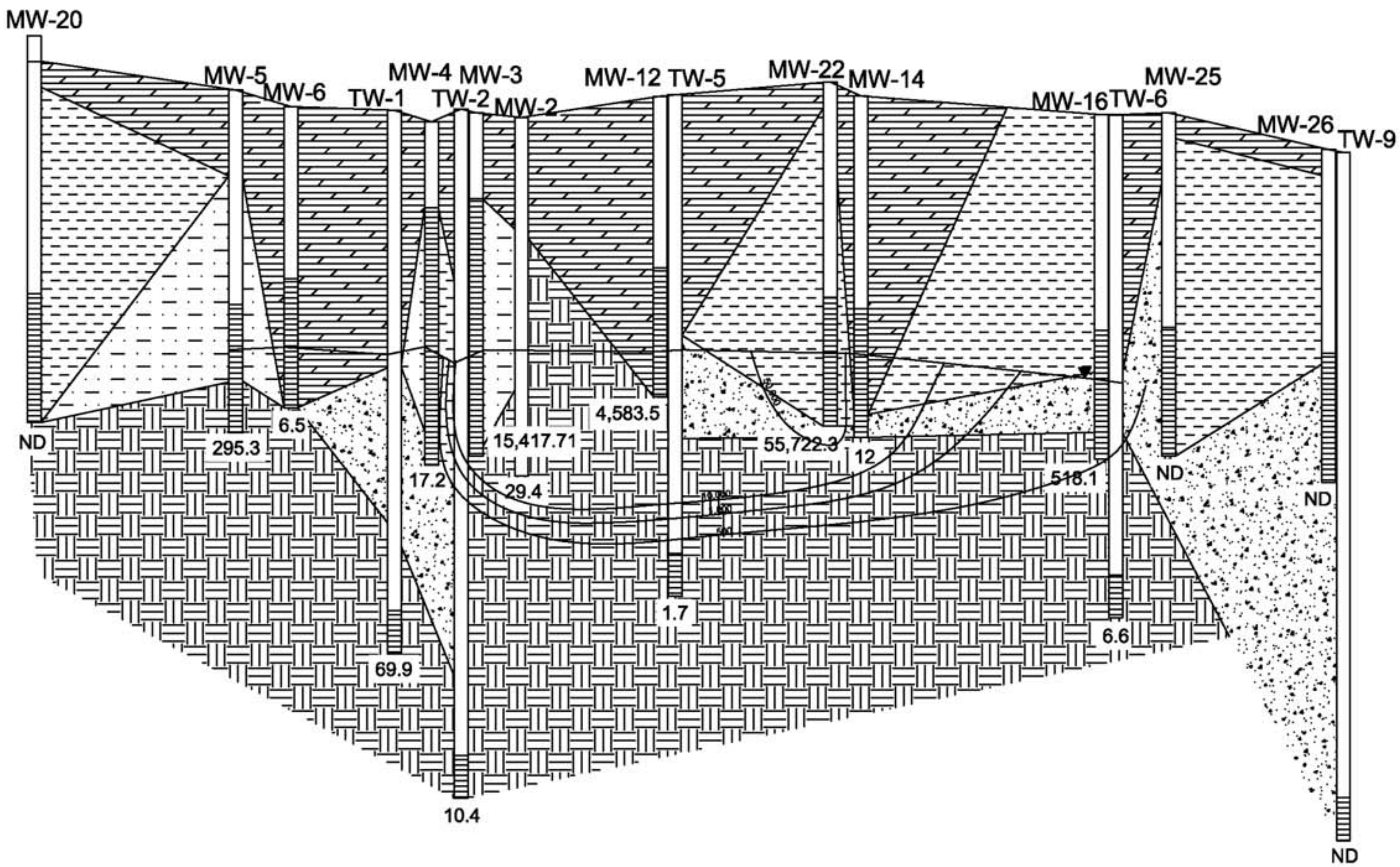
CLIENT:

Wilkerson Fuel Company, Inc.

GRAPHIC SCALE: 150 75 0 75 150

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1"=150'	12/15/10	14-214210	7



Legend

MW-1 Well ID

Monitoring Well

Screened Interval

Potentiometric Surface Observed on 10/18/10

70,000 — Isoconcentration Line (ug/L)

40 Total Volatile CoC Concentration in ug/L (Sum of BTEX Compounds, MTBE, Naphthalene, EDB & 1,2-DCA concentrations observed in wells in October through December 2010.

ND Not Detected

Silty Clay

Silt

Mudstone

Partially Weathered Rock

Rock

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Well construction and lithological information not available for well MW-2.

Groundwater elevations for wells installed in December 2010 not plotted due to significant change in water level.

Vertical Scale 1"=14'

Horizontal Scale 1"=70'

ecs

WHERE BUSINESS AND THE ENVIRONMENT CONVERGE
13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL (704)583-2711 FAX (704)583-2744

PROJECT: **378 Truck Stop**
731 Highway 378
Edgefield, SC

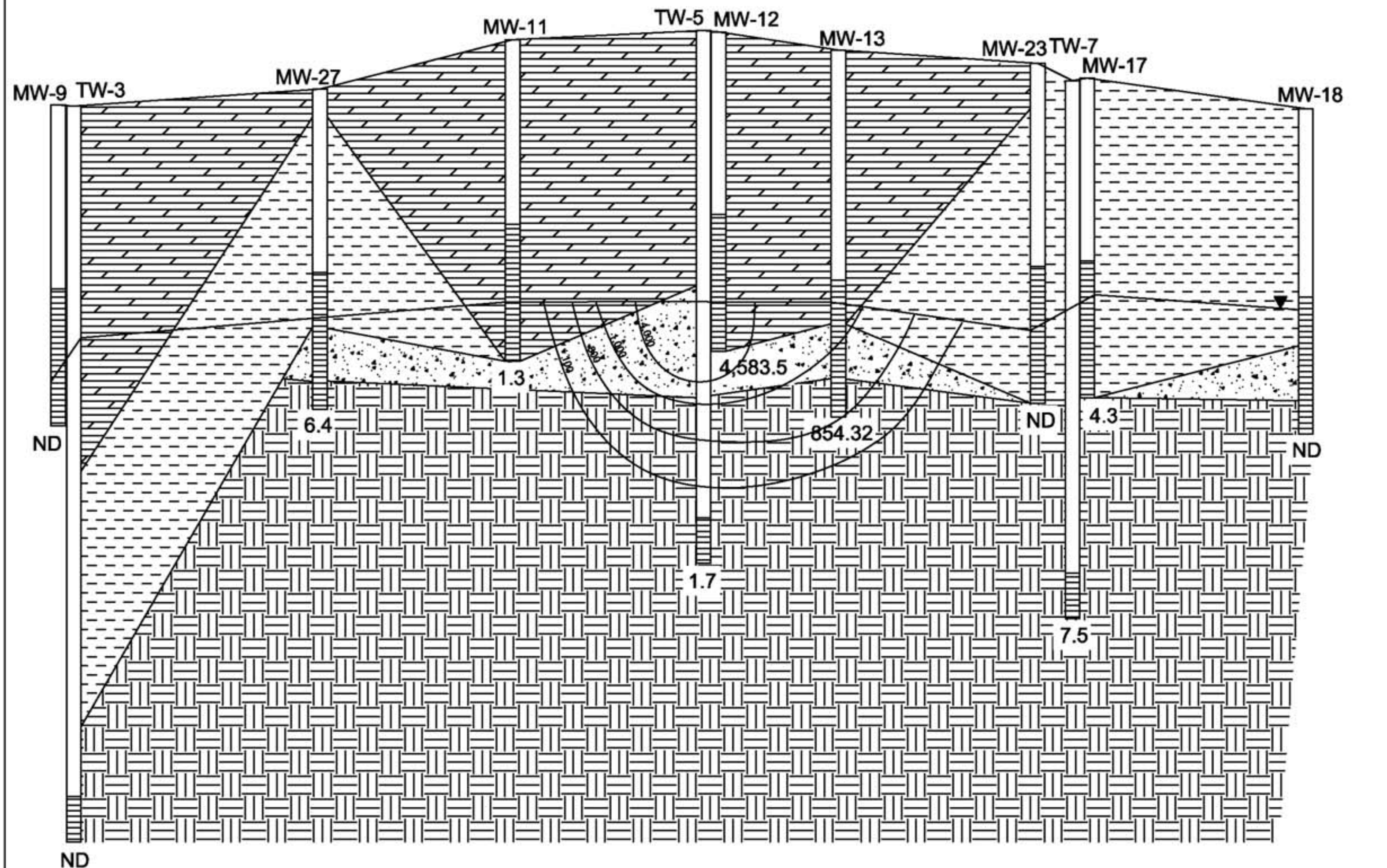
TITLE: **A-A' Cross Section**

CLIENT: **Wilkerson Fuel Company, Inc.**

GRAPHIC SCALE: 0

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
-	12/15/10	14-214210	8



Legend

MW–1 Well ID

Monitoring Well

Screened Interval

Potentiometric Surface Observed on 10/18/10

70,000 —— Isoconcentration Line (ug/L)

40 Total Volatile CoC Concentration in ug/L (Sum of BTEX Compounds, MTBE, Naphthalene, EDB & 1,2–DCA concentrations observed in wells in October through December 2010.

ND Not Detected

Silty Clay

Silt

Partially Weathered Rock

Rock

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Groundwater elevations for wells installed in December 2010 not plotted due to significant change in water level. TW–7 water level not plotted (not representative of water table).

Vertical Scale 1"=12'

Horizontal Scale 1"=60'

ecs

WHERE BUSINESS AND THE ENVIRONMENT CONVERGE
13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL (704)583-2711 FAX (704)583-2744

PROJECT: 378 Truck Stop
731 Highway 378
Edgefield, SC

TITLE: B-B' Cross Section

CLIENT: Wilkerson Fuel Company, Inc.

GRAPHIC SCALE:

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
-	12/15/10	14-214210	9

APPENDIX A

Well Logs

BORING LOG

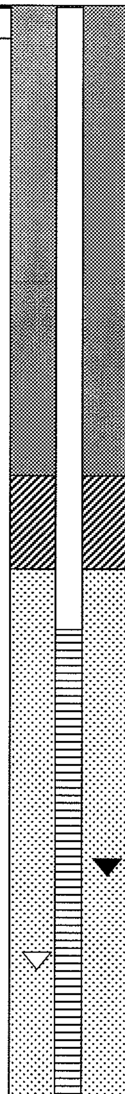
Job Name:	378 Truck Stop
Location:	731 Highway 378
	Edgefield, SC

Datum Elevation:	102.84	feet
Height of Riser:	102.25	feet

PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	PID (ppm)	Sample Interval
101.84	1.0	Grass/Fill Light brown SILT, dry.		
	5.0		1.5	5
	10.0		1.0	10
	15.0		0.0	15
	20.0		0.2	20
	25.0		0.1	25
	30.0		0.1	30
67.84	35.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 35 feet on 10/5/10 with 15 feet of 0.010-inch slotted screen to 20 feet, sand to 18 feet, bentonite to 15 feet, grout to surface. Measured total well depth following installation = 35.05 ft.		
	40.0			
	45.0			

WELL DIAGRAM



REMARKS: Drilled with Drilltech Air Rig using 6" hammer
Borehole diameter approximately 7.5".

Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - R. Byas

BORING NUMBER: MW-6
DATE STARTED: 10/5/2010
DATE COMPLETED: 10/8/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

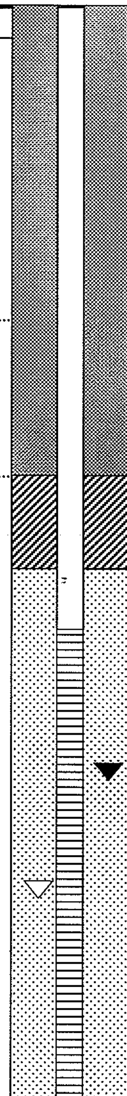
BORING LOG

Job Name:	378 Truck Stop
Location:	731 Highway 378
	Edgefield, SC
Datum Elevation:	99.90 feet
Height of Riser:	99.72 feet

PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	PID (ppm)	Sample Interval
		Asphalt/Fill		
98.90	1.0	Light brown SILT, dry.		
	5.0		1.7	5
89.90	10.0	Light brown SILT, dry, possible petrol odor.	387	10
84.90	15.0	Light brown SILT, dry, petrol odor.	213	15
	20.0		226	20
	25.0		8.7	25
	30.0		2.2	30
64.90	35.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 35 feet on 10/4/10 with 15 feet of 0.010-inch slotted screen to 20 feet, sand to 18 feet, bentonite to 15 feet, grout to surface. Measured total well depth following installation = 34.92 ft.		
	40.0			
	45.0			

WELL DIAGRAM



REMARKS: Drilled with Drilltech Air Rig using 6" hammer

Borehole diameter approximately 7.5".

Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins

LOGGED BY: ECS - R. Byas

BORING NUMBER: MW-7

DATE STARTED: 10/5/2010

DATE COMPLETED: 10/8/2010

PROJECT NUMBER: 14-214210

▽ GW level @ time of boring

▼ GW level measured after well installation

Grout

Bentonite

Sand

Riser

Screen

Hand Auger

Standard Penetration Test

Drill Cuttings

PAGE 1 OF 1

BORING LOG

Job Name: 378 Truck Stop

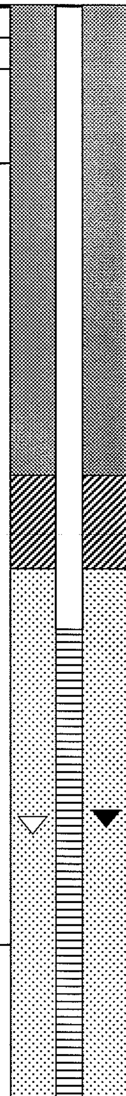
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 100.48 feet

Height of Riser: 99.92 feet

PENETRATION - BLOWS PER FOOT (0 10 20 30 40 50 60 70 80 90 100)

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	PID (ppm)	Sample Interval
		Gravel/Fill		
99.48	1.0	Light brown SILT, dry.		
98.48	2.0	Brown, medium plasticity CLAY, moist.		
95.48	5.0	Light brown SILT, dry.	0.1	5
	10.0		0.3	10
	15.0		0.2	15
	20.0		0.3	20
	25.0		0.2	25
70.48	30.0	Rock	0.2	30
65.48	35.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 35 feet on 10/5/10 with 15 feet of 0.010-inch slotted screen to 20 feet, sand to 18 feet, bentonite to 15 feet, grout to surface. Measured total well depth following installation = 35.08 ft.		
	40.0			
	45.0			



REMARKS: Drilled with Drilltech Air Rig using 6" hammer
Borehole diameter approximately 7.5".

Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins

LOGGED BY: ECS - R. Byas

BORING NUMBER: MW-8

DATE STARTED: 10/5/2010

DATE COMPLETED: 10/8/2010

PROJECT NUMBER: 14-214210

GW level @ time of boring
GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name: 378 Truck Stop

Location: 731 Highway 378

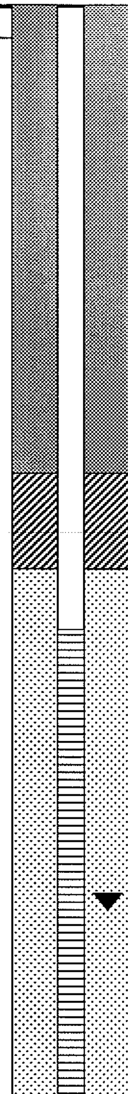
Edgefield, SC

Datum Elevation: 95.35 feet

Height of Riser: 94.83 feet

PENETRATION - BLOWS PER FOOT

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval	0 10 20 30 40 50 60 70 80 90 100
		Grass/Fill				
94.35	1.0	Light brown SILT, dry.				
	5.0					
	10.0					
	15.0					
	20.0					
	25.0					
	30.0					
60.35	35.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 35 feet on 10/14/10 with 15 feet of 0.010-inch slotted screen to 20 feet, sand to 18 feet, bentonite to 15 feet, grout to surface. Measured total well depth following installation = 35.17 ft.				
	40.0					
	45.0					



REMARKS: Drilled with Drilltech Air Rig using 6" hammer

Borehole diameter approximately 7.5".

Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins

LOGGED BY: ECS - R. Byas

BORING NUMBER: MW-9

DATE STARTED: 10/7/2010

DATE COMPLETED: 10/14/2010

PROJECT NUMBER: 14-214210

▽ GW level @ time of boring

▼ GW level measured after well installation

Grout

Bentonite

Sand

Riser

Screen

Hand Auger

Standard Penetration Test

Drill Cuttings

BORING LOG

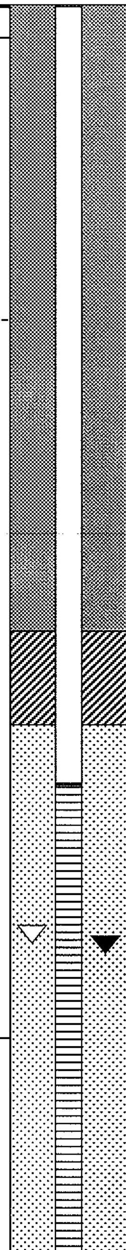
ecs

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 99.51 feet
Height of Riser: 99.12 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Grass/Topsoil
98.51	1.0	Light orange/light brown SILT, dry
	5.0	
89.51	10.0	Light brown SILT, dry
	15.0	
	20.0	
	25.0	
	30.0	
66.51	33.0	Rock
	35.0	
59.51	40.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 40 feet on 10/14/10 with 15 feet of 0.010-inch slotted screen to 25 feet, sand to 23 feet, bentonite to 20 feet, and grout to surface. Measured total well depth following installation = 40.16 ft.
	45.0	

WELL DIAGRAM



PID (ppm) | Sample Interval

PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Drilled with Drilltech Air Rig using 6" hammer
Borehole diameter approximately 7.5".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

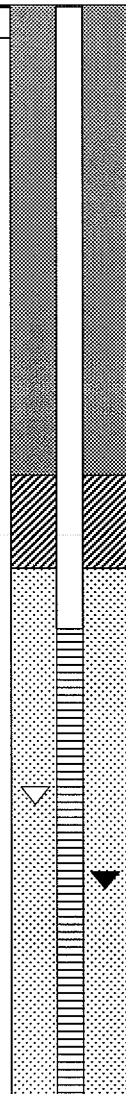
BORING NUMBER: MW-10
DATE STARTED: 10/13/2010
DATE COMPLETED: 10/14/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name:	378 Truck Stop	Datum Elevation:	102.97 feet
Location:	731 Highway 378	Height of Riser:	102.61 feet
	Edgefield, SC		

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval	PENETRATION - BLOWS PER FOOT
		Grass/Fill				
101.97	1.0	Light brown SILT, dry.				
	5.0					
	10.0					
	15.0					
	20.0					
	25.0					
	30.0					
67.97	35.0	Rock. Boring terminated at 40 ft; well materials raised 5 ft based on depth of water in well. 2-inch diameter schedule 40 PVC shallow monitoring well installed to 35 feet on 10/6/10 with 15 feet of 0.010-inch slotted screen to 20 feet, sand to 18 feet, bentonite to 15 feet, grout to surface. Meaured total well depth following installation = 35.23 ft.				
	40.0					
	45.0					



Penetration scale: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Drilled with Drilltech Air Rig using 6" hammer
Borehole diameter approximately 7.5".

Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - R. Byas

BORING NUMBER: MW-11
DATE STARTED: 10/6/2010
DATE COMPLETED: 10/8/2010
PROJECT NUMBER: 14-214210

- ▽ GW level @ time of boring
- ▼ GW level measured after well installation
- Grout
- Bentonite
- Sand
- Riser
- Screen
- Hand Auger
- Standard Penetration Test
- Drill Cuttings

BORING LOG

ecs

Job Name: 378 Truck Stop

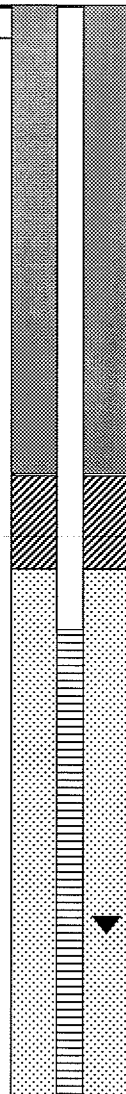
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 103.78 feet

Height of Riser: 103.46 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Grass/Fill
102.78	1.0	Light brown SILT, dry.
	5.0	
	10.0	
	15.0	
	20.0	
	25.0	
	30.0	
68.78	35.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 35 feet on 10/15/10 with 15 feet of 0.010-inch slotted screen to 20 feet, sand to 18 feet, bentonite to 15 feet, grout to surface. Measured total well depth following installation = 34.99 ft.
	40.0	
	45.0	

WELL DIAGRAM



PID (ppm) | Sample Interval

PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Drilled with Drilltech Air Rig using 6" hammer
Borehole diameter approximately 7.5".

Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins

LOGGED BY: ECS - R. Byas

BORING NUMBER: MW-12

DATE STARTED: 10/7/2010

DATE COMPLETED: 10/15/2010

PROJECT NUMBER: 14-214210

GW level @ time of boring
GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

ecs

Job Name:	378 Truck Stop		Datum Elevation:	101.90 feet
Location:	731 Highway 378		Height of Riser:	101.48 feet
	Edgefield, SC			

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval	PENETRATION - BLOWS PER FOOT (0 10 20 30 40 50 60 70 80 90 100)
		Grass/Fill				
100.90	1.0	Brown SILT, dry.				
	30.0	Partially weathered rock				
65.90	36.0	Rock.				
61.90	40.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 40 feet on 10/5/10 with 15 feet of 0.010-inch slotted screen to 25 feet, sand to 23 feet, bentonite to 20 feet, grout to surface. Measured total well depth following installation = 40.19 ft.				

Depth scale: 5.0, 10.0, 15.0, 20.0, 25.0, 30.0, 35.0, 40.0, 45.0

REMARKS: Drilled with Drilltech Air Rig using 6" hammer
Borehole diameter approximately 7.5".

Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - R. Byas

BORING NUMBER: MW-13
DATE STARTED: 10/5/2010
DATE COMPLETED: 10/8/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

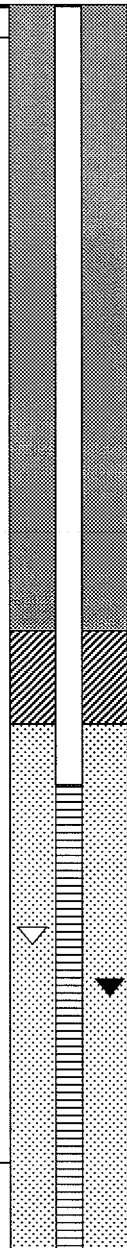
BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 104.03 feet
Height of Riser: 103.48 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
103.03	1.0	Grass/Foliage/Topsoil
		Light brown SILT, dry
	5.0	
	10.0	
	15.0	
	20.0	
	25.0	
	30.0	
	35.0	
67.03	37.0	Partially weathered rock
64.03	40.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 40 feet on 10/14/10 with 15 feet of 0.010-inch slotted screen to 25 feet, sand to 23 feet, bentonite to 20 feet, grout to surface. Measured total well depth following installation = 39.74 ft.
	45.0	

WELL DIAGRAM | PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100



REMARKS: Drilled with Drilltech Air Rig using 6" hammer.
Borehole diameter approximately 7.5".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: MW-14
DATE STARTED: 10/11/2010
DATE COMPLETED: 10/14/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

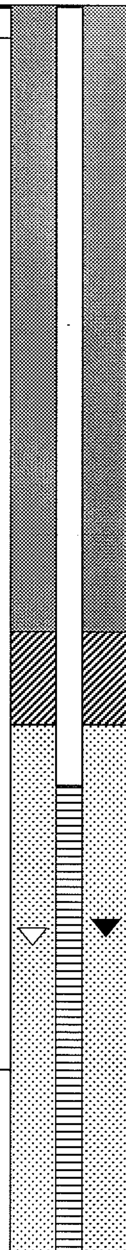
ecs

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 103.76 feet
Height of Riser: 103.16 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Grass/Topsoil
102.76	1.0	Light brown SILT, dry
	5.0	
	10.0	
	15.0	
	20.0	
	25.0	
	30.0	
69.76	34.0	Light brown SILT with partially weathered rock, dry
	35.0	
63.76	40.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 40 feet on 10/14/10 with 15 feet of 0.010-inch slotted screen to 25 feet, sand to 23 feet, bentonite to 20 feet, grout to surface. Measured total well depth following installation = 40.13 ft.
	45.0	

WELL DIAGRAM



PID (ppm) | Sample Interval

PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Drilled with Drilltech Air Rig using 6" hammer.
Borehole diameter approximately 7.5".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: MW-15
DATE STARTED: 10/11/2010
DATE COMPLETED: 10/14/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

PAGE 1 OF 1

BORING LOG

Job Name:	378 Truck Stop	Datum Elevation:	101.53 feet
Location:	731 Highway 378	Height of Riser:	101.32 feet
	Edgefield, SC		

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Grass/Topsoil
100.53	1.0	Light brown SILT, dry
71.53	30.0	Partially weathered rock
64.53	37.0	Rock
61.53	40.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 40 feet on 10/14/10 with 15 feet of 0.010-inch slotted screen to 25 feet, sand to 23 feet, bentonite to 20 feet, grout to surface. Measured total well depth following installation = 40.11 ft.

Depth scale: 1.0, 5.0, 10.0, 15.0, 20.0, 25.0, 30.0, 35.0, 37.0, 40.0, 45.0

WELL DIAGRAM | PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Drilled with Drilltech Air Rig using 6" hammer.
Borehole diameter approximately 7.5".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: MW-16
DATE STARTED: 10/12/2010
DATE COMPLETED: 10/14/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

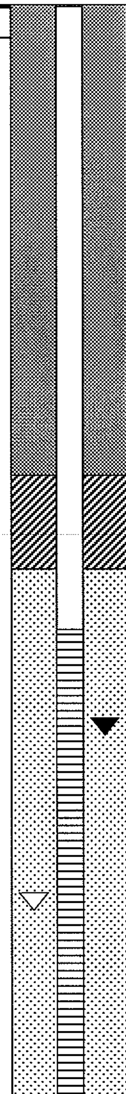
BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 98.65 feet
Height of Riser: 98.40 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Grass/Topsoil
97.65	1.0	Light brown SILT, dry
	5.0	
	10.0	
	15.0	
	20.0	
	25.0	
	30.0	
63.65	35.0	Boring terminated at 40 ft; well materials raised 5 ft based on depth of water in well. 2-inch diameter schedule 40 PVC shallow monitoring well installed to 35 feet on 10/14/10 with 15 feet of 0.010-inch slotted screen to 20 feet, sand to 18 feet, bentonite to 15 feet, and grout to surface. Meaured total well depth following installation = 35.02 ft.
	40.0	
	45.0	

WELL DIAGRAM



PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Drilled with Drilltech Air Rig using 6" hammer.
Borehole diameter approximately 7.5".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: MW-17
DATE STARTED: 10/13/2010
DATE COMPLETED: 10/14/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

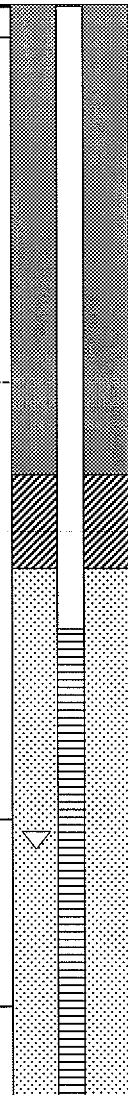
ecs

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 95.34 feet
Height of Riser: 95.05 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Grass/Topsoil
94.34	1.0	Light orange/light brown SILT, dry
	5.0	
	10.0	
83.34	12.0	Light brown SILT, dry
	15.0	
	20.0	
	25.0	
69.34	26.0	Partially weathered rock
	30.0	
63.34	32.0	Rock
60.34	35.0	Boring terminated at 40 ft; well materials raised 5 ft based on depth of water in well. 2-inch diameter schedule 40 PVC shallow monitoring well installed to 35 feet on 10/15/10 with 15 feet of 0.010-inch slotted screen to 20 feet, sand to 18 feet, bentonite to 15 feet, and grout to surface. Meaured total well depth following installation = 35.67 ft.
	40.0	
	45.0	

WELL DIAGRAM



PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Drilled with Drilltech Air Rig using 6" hammer.
Borehole diameter approximately 7.5".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: MW-18
DATE STARTED: 10/13/2010
DATE COMPLETED: 10/15/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

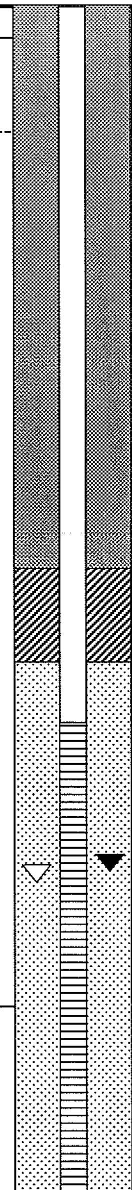
BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 101.40 feet
Height of Riser: 101.07 feet

PENETRATION - BLOWS PER FOOT

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval	0 10 20 30 40 50 60 70 80 90 100
		Grass/Topsoil				
100.40	1.0	Orange/light brown SILT, dry				
97.40	4.0	Light brown SILT, dry				
	5.0					
	10.0					
	15.0					
	20.0					
	25.0					
	30.0					
69.40	32.0	Rock				
	35.0					
63.40	38.0	Boring terminated at 40 ft; well materials raised 2 ft based on depth of water in well. 2-inch diameter schedule 40 PVC shallow monitoring well installed to 38 feet on 10/14/10 with 15 feet of 0.010-inch slotted screen to 23 feet, sand to 21 feet, bentonite to 18 feet, and grout to surface. Meaured total well depth following installation = 38.57 ft.				
	40.0					
	45.0					



REMARKS: Drilled with Drilltech Air Rig using 6" hammer.
Borehole diameter approximately 7.5".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: MW-19
DATE STARTED: 10/13/2010
DATE COMPLETED: 10/14/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

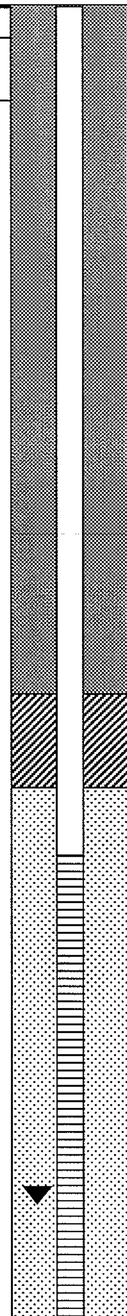
PAGE 1 OF 1

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 107.40 feet
Height of Riser: 110.52 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval	PENETRATION - BLOWS PER FOOT (0 10 20 30 40 50 60 70 80 90 100)
		Foliage/Topsoil				
106.40	1.0	Light brown/grey silty CLAY, low plasticity, dry				
104.40	3.0	Light brown SILT, dry				
	5.0					
	10.0					
	15.0					
	20.0					
	25.0					
	30.0					
	35.0					
	40.0					
65.40	42.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 42 feet with 15 feet of 0.010-inch slotted screen to 27 feet, sand to 25 feet, bentonite to 22 feet, and grout to surface. 3 ft stickup casing installed. Measured total well depth following installation = 45.05 ft.				
	45.0					



REMARKS: Drilled with Drilltech Air Rig using 6" hammer
Borehole diameter approximately 7.5".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: MW-20
DATE STARTED: 11/29/2010
DATE COMPLETED: 12/3/2010
PROJECT NUMBER: 14-214210

GW level @ time of boring
GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

PAGE 1 OF 1

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 102.00 feet
Height of Riser: 101.70 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval	PENETRATION - BLOWS PER FOOT (0 10 20 30 40 50 60 70 80 90 100)
		Grass/Gravel/Topsoil				
101.00	1.0	Orange silty CLAY, low plasticity, dry				
99.00	3.0	Light brown/grey silty CLAY, low plasticity, dry				
97.00	5.0	Light brown SILT, dry				
	10.0					
	15.0					
	20.0					
	25.0					
	30.0					
67.00	35.0	ROCK				
62.00	40.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 40 feet with 15 feet of 0.010-inch slotted screen to 25 feet, sand to 23 feet, bentonite to 20 feet, and grout to surface. Measured total well depth following installation = 40.16 ft.				
	45.0					

REMARKS: Drilled with Drilltech Air Rig using 6" hammer
Borehole diameter approximately 7.5".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: MW-21
DATE STARTED: 11/29/2010
DATE COMPLETED: 12/3/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

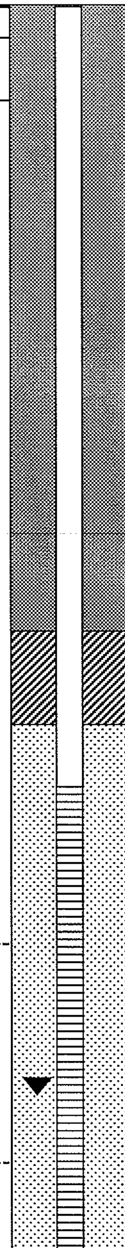
Job Name: 378 Truck Stop
Location: 731 Highway 378, Edgefield, SC

Datum Elevation: 105.47 feet
Height of Riser: 105.13 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Foliage/Topsoil
104.47	1.0	Orange/red silty CLAY, low plasticity, dry
102.47	3.0	Light brown SILT, dry
75.47	30.0	Light brown SILT, dry, petroleum odor
68.47	37.0	Grey SILT w/ Partially Weathered Rock
65.47	40.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 40 feet with 15 feet of 0.010-inch slotted screen to 25 feet, sand to 23 feet, bentonite to 20 feet, and grout to surface. Measured total well depth following installation = 40.09 ft.

Depth scale (feet): 5.0, 10.0, 15.0, 20.0, 25.0, 30.0, 35.0, 40.0, 45.0

WELL DIAGRAM | PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100



REMARKS: Drilled with Drilltech Air Rig using 6" hammer
Borehole diameter approximately 7.5".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: MW-22
DATE STARTED: 11/30/2010
DATE COMPLETED: 12/3/2010
PROJECT NUMBER: 14-214210

Legend:
- GW level @ time of boring
- GW level measured after well installation
- Grout
- Bentonite
- Sand
- Riser
- Screen
- Hand Auger
- Standard Penetration Test
- Drill Cuttings

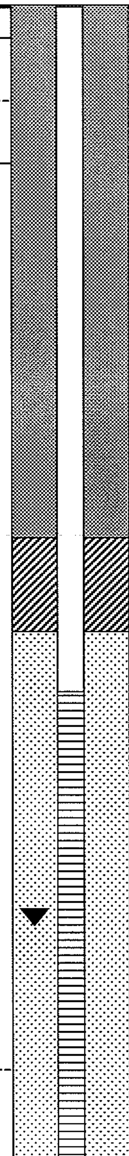
BORING LOG

ecs

Job Name:	378 Truck Stop	Datum Elevation:	100.29 feet
Location:	731 Highway 378	Height of Riser:	100.01 feet
	Edgefield, SC		

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Grass/Topsoil
99.29	1.0	Light orange silty CLAY, low plasticity, dry
97.29	3.0	Grey silty CLAY, medium plasticity, dry
95.29	5.0	Light brown SILT, dry
	10.0	
	15.0	
	20.0	
	25.0	
	30.0	
66.29	34.0	Grey SILT w/ Partially Weathered Rock
	35.0	
63.29	37.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 37 feet with 15 feet of 0.010-inch slotted screen to 22 feet, sand to 20 feet, bentonite to 17 feet, and grout to surface. Measured total well depth following installation = 37.24 ft.
	40.0	
	45.0	

WELL DIAGRAM



PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Drilled with Drilltech Air Rig using 6" hammer.
Borehole diameter approximately 7.5".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: MW-23
DATE STARTED: 11/30/2010
DATE COMPLETED: 12/3/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

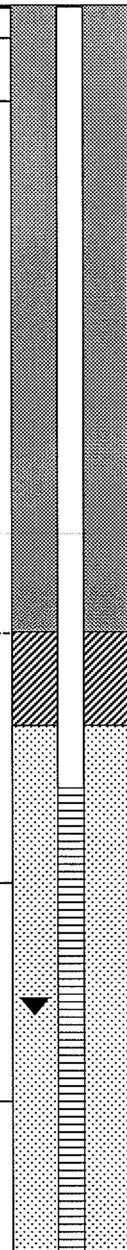
BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 99.32 feet
Height of Riser: 99.08 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Grass/Topsoil
98.32	1.0	Orange/brown silty CLAY, low plasticity, dry
96.32	3.0	Light brown SILT, dry
	5.0	
	10.0	
	15.0	
79.32	20.0	Light brown SILT w/ Partially Weathered Rock, dry
	25.0	
71.32	28.0	Partially Weathered Rock w/ some light brown SILT, dry
	30.0	
64.32	35.0	ROCK
59.32	40.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 40 feet with 15 feet of 0.010-inch slotted screen to 25 feet, sand to 23 feet, bentonite to 20 feet, and grout to surface. Measured total well depth following installation = 40.13 ft.
	45.0	

WELL DIAGRAM



PID (ppm) | Sample Interval

PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Drilled with Drilltech Air Rig using 6" hammer
Borehole diameter approximately 7.5".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: MW-24
DATE STARTED: 12/1/2010
DATE COMPLETED: 12/3/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

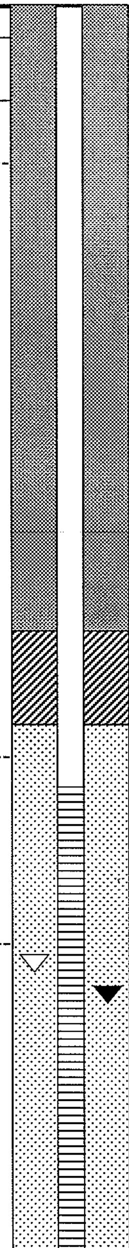
ecs

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 101.84 feet
Height of Riser: 101.54 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Grass/Topsoil
100.84	1.0	Light orange silty CLAY, low plasticity, dry
98.84	3.0	Light orange/light brown SILT, dry
96.84	5.0	Light brown SILT, dry
	10.0	
	15.0	
	20.0	
77.84	24.0	Light brown/light grey SILT, dry
	25.0	
71.84	30.0	Light grey SILT
	35.0	
61.84	40.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 40 feet with 15 feet of 0.010-inch slotted screen to 25 feet, sand to 23 feet, bentonite to 20 feet, and grout to surface. Measured total well depth following installation = 39.98 ft.
	45.0	

WELL DIAGRAM



PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Drilled with Drilltech Air Rig using 6" hammer
Borehole diameter approximately 7.5".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: MW-25
DATE STARTED: 12/1/2010
DATE COMPLETED: 12/3/2010
PROJECT NUMBER: 14-214210

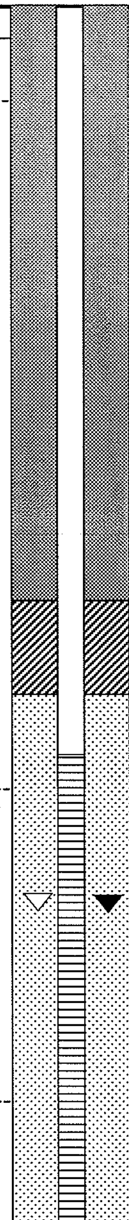
▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name:	378 Truck Stop
Location:	731 Highway 378
	Edgefield, SC
Datum Elevation:	97.61 feet
Height of Riser:	97.25 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
96.61	1.0	Grass/Topsoil
		Light brown clayey SILT, dry
94.61	3.0	Light brown SILT, dry
	5.0	
	10.0	
	15.0	
	20.0	
72.61	25.0	Light brown/light grey SILT w/ Partially Weathered Rock, d
	30.0	
62.61	35.0	Light grey SILT w/ Partially Weathered Rock
58.61	39.0	Boring terminated at 40 ft; well materials raised 1 ft based on depth of water in well. 2-inch diameter schedule 40 PVC shallow monitoring well installed to 39 feet with 15 feet of 0.010-inch slotted screen to 24 feet, sand to 22 feet, bentonite to 19 feet, and grout to surface. Meaured total well depth following installation = 38.74 ft.
	40.0	
	45.0	

WELL DIAGRAM | PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100



REMARKS: Drilled with Drilltech Air Rig using 6" hammer.
Borehole diameter approximately 7.5".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: MW-26
DATE STARTED: 12/1/2010
DATE COMPLETED: 12/2/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 97.42 feet
Height of Riser: 97.20 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval	PENETRATION - BLOWS PER FOOT (0 10 20 30 40 50 60 70 80 90 100)
		Grass/Topsoil				
96.42	1.0	Light orange clayey SILT, dry				
94.42	3.0	Light orange/light brown SILT, dry				
	5.0					
87.42	10.0	Light brown SILT, dry				
	15.0					
	20.0					
	25.0					
71.42	26.0	Partially Weathered Rock				
	30.0					
65.42	32.0	ROCK				
62.42	35.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 35 feet with 15 feet of 0.010-inch slotted screen to 20 feet, sand to 18 feet, bentonite to 15 feet, and grout to surface. Measured total well depth following installation = 35.10 ft.				
	40.0					
	45.0					

REMARKS: Drilled with Drilltech Air Rig using 6" hammer
Borehole diameter approximately 7.5".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: MW-27
DATE STARTED: 11/29/2010
DATE COMPLETED: 12/2/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

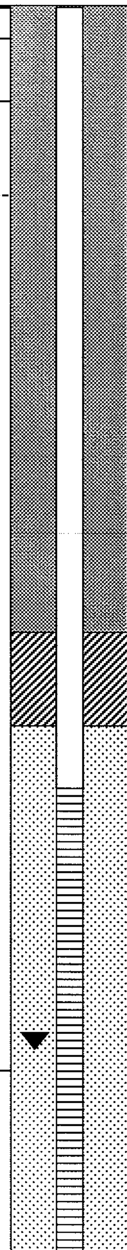
BORING LOG

Job Name:	378 Truck Stop
Location:	731 Highway 378
	Edgefield, SC

Datum Elevation:	101.57 feet
Height of Riser:	101.29 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
100.57	1.0	Grass/Topsoil
		Light orange/grey silty CLAY, low plasticity, dry
98.57	3.0	Light orange SILT, dry
	5.0	
95.57	6.0	Light brown SILT, dry
	10.0	
	15.0	
	20.0	
	25.0	
	30.0	
67.57	34.0	ROCK
	35.0	
61.57	40.0	2-inch diameter schedule 40 PVC shallow monitoring well installed to 40 feet with 15 feet of 0.010-inch slotted screen to 25 feet, sand to 23 feet, bentonite to 20 feet, and grout to surface. Measured total well depth following installation = 40.03 ft.
	45.0	

WELL DIAGRAM



PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Drilled with Drilltech Air Rig using 6" hammer
Borehole diameter approximately 7.5".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER:	MW-28
DATE STARTED:	11/29/2010
DATE COMPLETED:	12/3/2010
PROJECT NUMBER:	14-214210

GW level @ time of boring
GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 102.02 feet
Height of Riser: 101.83 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Grass/Fill
101.02	1.0	Yellow/brown SILT, dry.
	5.0	
	10.0	
	15.0	
	20.0	
	25.0	
72.02	30.0	Partially weathered rock
	35.0	
	40.0	
	45.0	
54.02	48.0	Rock.

WELL DIAGRAM | PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Inner casing drilled with 6" hammer.
Borehole diameter approximately 12".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - R. Byas

BORING NUMBER: TW-1
DATE STARTED: 10/5/2010
DATE COMPLETED: 10/8/2010
PROJECT NUMBER: 14-214210

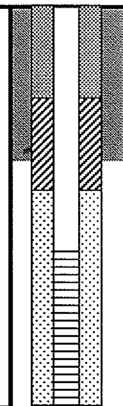
▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 102.02 feet
Height of Riser: 101.83 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval	PENETRATION - BLOWS PER FOOT
		Rock.				
47.02	55.0	6-inch diameter PVC outer casing set at 55 ft.				
	60.0					
39.02	63.0	2-inch diameter schedule 40 inner casing installed to 63 feet on 10/6/10 with 5 feet of 0.010-inch slotted screen to 58 feet, sand to 56 feet, bentonite to 53 feet, grout to surface. Measured total well depth following installation = 63.27 ft.				
	65.0					
	70.0					
	75.0					
	80.0					
	85.0					
	90.0					
	95.0					



REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Inner casing drilled with 6" hammer.
Borehole diameter approximately 12".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - R. Byas

BORING NUMBER: TW-1
DATE STARTED: 10/5/2010
DATE COMPLETED: 10/8/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name:	378 Truck Stop	Datum Elevation:	102.14 feet
Location:	731 Highway 378	Height of Riser:	101.97 feet
	Edgefield, SC		

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Gravel/Fill
101.14	1.0	Yellow/brown SILT,dry.
	5.0	
	10.0	
	15.0	
	20.0	
	25.0	
	30.0	
	35.0	
	40.0	
58.14	44.0	Fractured Rock.
	45.0	

WELL DIAGRAM | PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Inner casing drilled with 6" hammer.
Borehole diameter approximately 12".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - R. Byas

BORING NUMBER: TW-2
DATE STARTED: 10/4/2010
DATE COMPLETED: 10/8/2010
PROJECT NUMBER: 14-214210

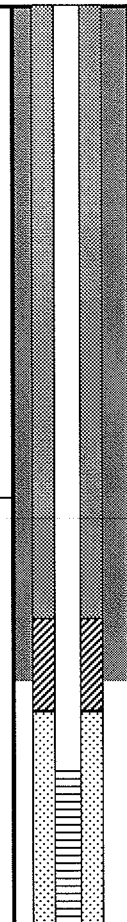
▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name:	378 Truck Stop
Location:	731 Highway 378
	Edgefield, SC
Datum Elevation:	102.14 feet
Height of Riser:	101.97 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Fractured Rock.
36.14	66.0	Rock.
30.14	72.0	6-inch diameter PVC outer casing set at 72 ft.
22.14	80.0	2-inch diameter schedule 40 inner casing installed to 80 feet on 10/5/10 with 5 feet of 0.010-inch slotted screen to 75 feet, sand to 73 feet, bentonite to 70 feet, grout to surface. Measured total well depth following installation = 80.23 ft.

WELL DIAGRAM



PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT (0 10 20 30 40 50 60 70 80 90 100)

Depth scale: 55.0, 60.0, 65.0, 70.0, 75.0, 80.0, 85.0, 90.0, 95.0

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Inner casing drilled with 6" hammer.
Borehole diameter approximately 12".
Geologic Exploration - GEX

DRILLED BY:	GEX - Jerry Watkins
LOGGED BY:	ECS - R. Byas
BORING NUMBER:	TW-2
DATE STARTED:	10/4/2010
DATE COMPLETED:	10/8/2010
PROJECT NUMBER:	14-214210

GW level @ time of boring
GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 95.65 feet
Height of Riser: 95.33 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval	PENETRATION - BLOWS PER FOOT (0 10 20 30 40 50 60 70 80 90 100)
94.65	1.0	Grass/Fill				
		Light brown SILT, dry.				
	5.0					
	10.0					
	15.0					
	20.0					
	25.0					
	30.0					
	35.0					
	40.0					
	45.0					

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Inner casing drilled with 6" hammer.
Borehole diameter approximately 12".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Small
LOGGED BY: ECS - R. Byas

BORING NUMBER: TW-3
DATE STARTED: 10/6/2010
DATE COMPLETED: 10/8/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

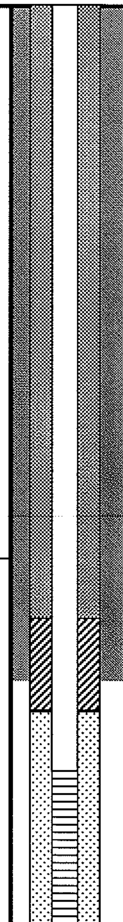
BORING LOG

Job Name:	378 Truck Stop
Location:	731 Highway 378
	Edgefield, SC

Datum Elevation:	95.65	feet
Height of Riser:	95.33	feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Light brown SILT, dry.
	55.0	
	60.0	
	65.0	
27.65	68.0	Rock.
	70.0	
23.65	72.0	6-inch diameter steel outer casing set at 72 ft.
	75.0	
15.65	80.0	2-inch diameter schedule 40 inner casing installed to 80 feet on 10/7/10 with 5 feet of 0.010-inch slotted screen to 75 feet, sand to 73 feet, bentonite to 70 feet, grout to surface. Measured total well depth following installation = 80.62 ft.
	85.0	
	90.0	
	95.0	

WELL DIAGRAM



PID (ppm) | Sample Interval

PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Inner casing drilled with 6" hammer.
Borehole diameter approximately 12".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins

LOGGED BY: ECS - R. Byas

BORING NUMBER: TW-3

DATE STARTED: 10/6/2010

DATE COMPLETED: 10/8/2010

PROJECT NUMBER: 14-214210

▽ GW level @ time of boring

▼ GW level measured after well installation

Grout

Bentonite

Sand

Riser

Screen

Hand Auger

Standard Penetration Test

Drill Cuttings

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 99.57 feet
Height of Riser: 99.23 feet

PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval
		Grass/Topsoil			
98.57	1.0	Light orange/light brown SILT, dry			
	5.0				
89.57	10.0	Light brown SILT, dry			
	15.0				
	20.0				
	25.0				
	30.0				
66.57	33.0	Rock			
	35.0				
	40.0				
54.57	45.0	Partially weathered rock			

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Inner casing drilled with 6" hammer.
Borehole diameter approximately 12".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: TW-4
DATE STARTED: 10/12/2010
DATE COMPLETED: 10/14/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

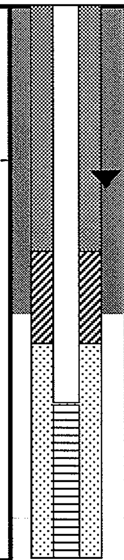
ecs

Datum Elevation: 99.57 feet
Height of Riser: 99.23 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
44.57	55.0	Rock
	60.0	6-inch diameter PVC outer casing set at 60 ft.
31.57	68.0	2-inch diameter schedule 40 inner casing installed to 68 feet on 10/14/10 with 5 feet of 0.010-inch slotted screen to 63 feet, sand to 61 feet, bentonite to 58 feet, and grout to surface. Measured total well depth following installation = 68.56 ft.

Depth scale: 55.0, 60.0, 65.0, 70.0, 75.0, 80.0, 85.0, 90.0, 95.0

WELL DIAGRAM | PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100



REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Inner casing drilled with 6" hammer.
Borehole diameter approximately 12".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: TW-4
DATE STARTED: 10/12/2010
DATE COMPLETED: 10/14/2010
PROJECT NUMBER: 14-214210

GW level @ time of boring
GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 103.91 feet
Height of Riser: 103.62 feet

PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval
		Grass/Fill			
102.91	1.0	Orange/brown SILT, dry.			
	5.0				
	10.0				
	15.0			9.4	15
83.91	20.0	Orange/brown SILT, dry, petrol odor.		156	20
82.91	21.0	Orange/brown SILT, dry.			
	25.0				
75.91	28.0	Partially weathered rock.			
	30.0				
	35.0				
63.91	40.0	Rock.			
	45.0				

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Inner casing drilled with 6" hammer.
Borehole diameter approximately 12".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - R. Byas

BORING NUMBER: TW-5
DATE STARTED: 10/6/2010
DATE COMPLETED: 10/8/2010
PROJECT NUMBER: 14-214210

GW level @ time of boring
GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 103.91 feet
Height of Riser: 103.62 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval	PENETRATION - BLOWS PER FOOT (0 10 20 30 40 50 60 70 80 90 100)
		6-inch diameter PVC outer casing set at 50 ft.				
	55.0					
45.91	58.0	2-inch diameter schedule 40 inner casing installed to 58 feet on 10/7/10 with 5 feet of 0.010-inch slotted screen to 53 feet, sand to 51 feet, bentonite to 48 feet, grout to surface. Measured total well depth following installation = 58.38 ft.				
	60.0					
	65.0					
	70.0					
	75.0					
	80.0					
	85.0					
	90.0					
	95.0					

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Inner casing drilled with 6" hammer.
Borehole diameter approximately 12".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - R. Byas

BORING NUMBER: TW-5
DATE STARTED: 10/6/2010
DATE COMPLETED: 10/8/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 101.54 feet
Height of Riser: 101.29 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
100.54	1.0	Grass/Topsoil
		Light brown SILT, dry
71.54	30.0	Partially weathered rock
64.54	37.0	Rock

Depth scale: 5.0, 10.0, 15.0, 20.0, 25.0, 30.0, 35.0, 40.0, 45.0

WELL DIAGRAM | PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Borehole diameter approximately 12".
Inner casing drilled using 6" hammer.
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

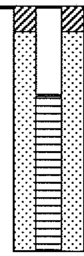
BORING NUMBER: TW-6
DATE STARTED: 10/11/2010
DATE COMPLETED: 10/14/2010
PROJECT NUMBER: 14-214210

GW level @ time of boring
GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 101.54 feet
Height of Riser: 101.29 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval	PENETRATION - BLOWS PER FOOT (0 10 20 30 40 50 60 70 80 90 100)
		6-inch diameter PVC outer casing set at 50 ft.				
	55.0					
43.54	58.0	2-inch diameter schedule 40 inner casing installed to 58 feet on 10/15/10 with 5 feet of 0.010-inch slotted screen to 53 feet, sand to 51 feet, bentonite to 48 feet, and grout to surface. Measured total well depth following installation = 58.55 ft.				
	60.0					
	65.0					
	70.0					
	75.0					
	80.0					
	85.0					
	90.0					
	95.0					

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Borehole diameter approximately 12".
Inner casing drilled using 6" hammer.
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: TW-6
DATE STARTED: 10/11/2010
DATE COMPLETED: 10/14/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

ecs

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 98.59 feet
Height of Riser: 98.13 feet

PENETRATION - BLOWS PER FOOT

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Grass/Topsoil
97.59	1.0	Light brown SILT, dry
	5.0	
	10.0	
	15.0	
	20.0	
	25.0	
	30.0	
63.59	35.0	Rock
	40.0	
	45.0	

WELL DIAGRAM | PID (ppm) | Sample Interval | 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Borehole diameter approximately 12".
Inner casing drilled using 6" hammer.
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

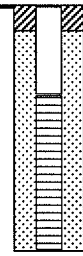
BORING NUMBER: TW-7
DATE STARTED: 10/12/2010
DATE COMPLETED: 10/15/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 98.59 feet
Height of Riser: 98.13 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval	PENETRATION - BLOWS PER FOOT (0 10 20 30 40 50 60 70 80 90 100)
		6-inch diameter PVC outer casing set at 50 ft.				
	55.0					
40.59	58.0	2-inch diameter schedule 40 inner casing installed to 58 feet on 10/15/10 with 5 feet of 0.010-inch slotted screen to 53 feet, sand to 51 feet, bentonite to 48 feet, and grout to surface. Measured total well depth following installation = 58.94 ft.				
	60.0					
	65.0					
	70.0					
	75.0					
	80.0					
	85.0					
	90.0					
	95.0					

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Borehole diameter approximately 12".
Inner casing drilled using 6" hammer.
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: TW-7
DATE STARTED: 10/12/2010
DATE COMPLETED: 10/15/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name:	378 Truck Stop	Datum Elevation:	101.35 feet
Location:	731 Highway 378	Height of Riser:	101.03 feet
	Edgefield, SC		

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Grass/Topsoil
100.35	1.0	Orange/light brown SILT, dry
97.35	4.0	Light brown SILT, dry
69.35	32.0	Rock

Depth scale: 5.0, 10.0, 15.0, 20.0, 25.0, 30.0, 35.0, 40.0, 45.0

WELL DIAGRAM | PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Borehole diameter approximately 12".
Inner casing drilled using 6" hammer.
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

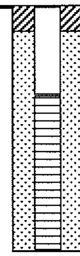
BORING NUMBER: TW-8
DATE STARTED: 10/12/2010
DATE COMPLETED: 10/14/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 101.35 feet
Height of Riser: 101.03 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval	PENETRATION - BLOWS PER FOOT 0 10 20 30 40 50 60 70 80 90 100
		6-inch diameter PVC outer casing set at 50 ft.				
	55.0					
43.35	58.0	2-inch diameter schedule 40 inner casing installed to 58 feet on 10/15/10 with 5 feet of 0.010-inch slotted screen to 53 feet, sand to 51 feet, bentonite to 48 feet, and grout to surface. Measured total well depth following installation = 58.53 ft.				
	60.0					
	65.0					
	70.0					
	75.0					
	80.0					
	85.0					
	90.0					
	95.0					

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Borehole diameter approximately 12".
Inner casing drilled using 6" hammer.
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: TW-8
DATE STARTED: 10/12/2010
DATE COMPLETED: 10/14/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

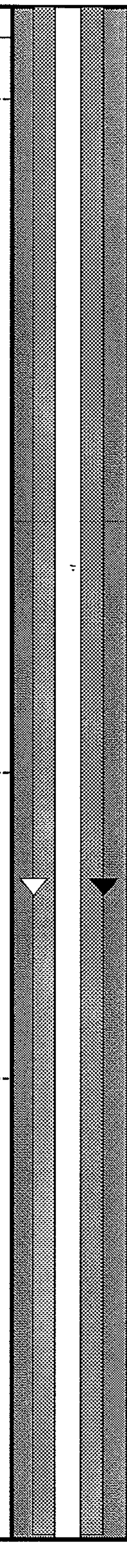
BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 97.47 feet
Height of Riser: 96.92 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
		Grass/Topsoil
96.47	1.0	Light brown clayey SILT, dry
94.47	3.0	Light brown SILT, dry
	5.0	
	10.0	
	15.0	
	20.0	
72.47	25.0	Light brown/light grey SILT w/ Partially Weathered Rock, dry
	30.0	
62.47	35.0	Light grey SILT w/ Partially Weathered Rock
	40.0	
	45.0	

WELL DIAGRAM



PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Inner casing drilled with 6" hammer.
Borehole diameter approximately 12".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: TW-9
DATE STARTED: 11/30/2010
DATE COMPLETED: 12/2/2010
PROJECT NUMBER: 14-214210

GW level @ time of boring
GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

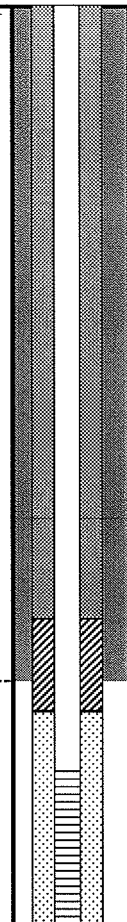
BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: 97.47 feet
Height of Riser: 96.92 feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION
47.47	50.0	Partially Weathered Rock with some grey and brown SILT
	55.0	
	60.0	
	65.0	
	70.0	
25.47	72.0	6-inch diameter PVC outer casing set at 72 ft.
	75.0	
17.47	80.0	2-inch diameter schedule 40 inner casing installed to 80 feet with 5 feet of 0.010-inch slotted screen to 75 feet, sand to 73 feet, bentonite to 70 feet, and grout to surface. Measured total well depth following installation = 80.12 ft.
	85.0	
	90.0	
	95.0	

WELL DIAGRAM



PID (ppm) | Sample Interval | PENETRATION - BLOWS PER FOOT: 0 10 20 30 40 50 60 70 80 90 100

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Inner casing drilled with 6" hammer.
Borehole diameter approximately 12".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: TW-9
DATE STARTED: 11/30/2010
DATE COMPLETED: 12/2/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: - feet
Height of Riser: - feet

PENETRATION - BLOWS PER FOOT

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval	0 10 20 30 40 50 60 70 80 90 100
		Grass/Topsoil				
	1.0	Orange/brown silty CLAY, low plasticity, dry				
	3.0	Light brown SILT, dry				
	5.0					
	10.0					
	15.0					
	20.0	Light brown SILT w/ Partially Weathered Rock, dry				
	25.0					
	28.0	Partially Weathered Rock with some light brown SILT				
	30.0					
	35.0	ROCK				
	40.0	6-inch diameter PVC outer casing set at 40 ft.				
	45.0					

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Inner casing drilled with 6" hammer.
Borehole diameter approximately 12".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: TW-10
DATE STARTED: 11/30/2010
DATE COMPLETED: 12/2/2010
PROJECT NUMBER: 14-214210

▽ GW level @ time of boring
▼ GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

BORING LOG

Job Name: 378 Truck Stop
Location: 731 Highway 378
Edgefield, SC

Datum Elevation: - feet
Height of Riser: - feet

ELEVATION (feet)	DEPTH (feet)	DESCRIPTION	WELL DIAGRAM	PID (ppm)	Sample Interval	PENETRATION - BLOWS PER FOOT (0 10 20 30 40 50 60 70 80 90 100)
	55.0					
	60.0					
	65.0					
	70.0					
	75.0					
	80.0	Boring abandoned at 80 ft. on 12/2/10 due to insufficient water.				
	85.0					
	90.0					
	95.0					

REMARKS: Outer casing drilled with Drilltech Air Rig using 10" hammer.
Inner casing drilled with 6" hammer.
Borehole diameter approximately 12".
Geologic Exploration - GEX

DRILLED BY: GEX - Jerry Watkins
LOGGED BY: ECS - B. McNeill

BORING NUMBER: TW-10
DATE STARTED: 11/30/2010
DATE COMPLETED: 12/2/2010
PROJECT NUMBER: 14-214210

GW level @ time of boring
GW level measured after well installation
Grout
Bentonite
Sand
Riser
Screen
Hand Auger
Standard Penetration Test
Drill Cuttings

APPENDIX B

Well Construction Records

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TAN SILTY CLAY	35.0	35.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-6 BENTONITE SEAL FROM 15.0 TO 18.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 35.0 ft. Date Started: 10/05/10 Date Completed: 10/05/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 20.0 ft. depth
____ in. to ____ ft. depth
Height: Above☐ Below☐
Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 20.0 ft. and 35.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 25.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 18.0 ft. to 35.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 15.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.:
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD STATESVILLE, NC 28625
Level: A B C D (circle one) ☐ ☑ ☐ ☐
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ft. to ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE CLAY	4.0	4.0
ORANGE SILTY CLAY	16.0	20.0
TAN SILT	11.0	31.0
GRAY SILT	4.0	35.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-7 BENTONITE SEAL FROM 15.0 TO 18.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 35.0 ft.
Date Started: 10/04/10
Date Completed: 10/04/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 20.0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 20.0 ft. and 35.0 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 27.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
ft. after hrs. Pumping G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 18.0 ft. to 35.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 15.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount:

18. PUMP: Date installed: Not installed ☐
Mfr. Name: Model No.:
H.P. Volts Length of drop pipe ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE CLAY	7.0	7.0
TAN SILTY CLAY	23.0	30.0
ROCK	5.0	35.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-8 BENTONITE SEAL FROM 15.0 TO 18.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10/05/10
35.0 ft. Date Completed: 10/05/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 20.0 ft. depth
____ in. to ____ ft. depth
Height: Above☐ Below☐
Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 20.0 ft. and 35.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 27.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 18.0 ft. to 35.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0.0 ft. to 15.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one) ☐ ☑ ☐ ☐
STATESVILLE, NC 28625
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	35.0	35.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-9 BENTONITE SEAL FROM 15.0 TO 18.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 35.0 ft. Date Started: 10/07/10 Date Completed: 10/07/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 20.0 ft. depth
____ in. to ____ ft. depth
Height: Above☐ Below☐ Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 20.0 ft. and 35.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 18.0 ft. to 35.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 15.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ______ ft. to ______ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILT	33.0	33.0
ROCK	7.0	40.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-10 BENTONITE SEAL FROM 20.0 TO 23.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10/12/10
40.0 ft. Date Completed: 10/12/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 25.0 ft. depth
______ in. to ______ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight ______ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 25.0 ft. and 40.0 ft. NOTE: MULTIPLE SCREENS
______ ft. and ______ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
______ ft. after ______ hrs. Pumping ______ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 23.0 ft. to 40.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ______
Depth: From 0.0 ft. to 20.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ______
Well Disinfected ☐ Yes ☐ No Type: ______ Amount: ______

18. PUMP: Date installed: ______ Not installed ☐
Mfr. Name: ______ Model No.: ______
H.P. ____ Volts ____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one) ☐ ☑ ☐ ☐
STATESVILLE, NC 28625
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY
(last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ______ ft. to ______ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SANDY CLAY	35.0	35.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-11 BENTONITE SEAL FROM 15.0 TO 18.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10/06/10
35.0 ft. Date Completed: 10/06/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 20.0 ft. depth
______ in. to ______ ft. depth
Height: Above☐ Below☐
Surface 0.0 ft.
Weight ______ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 20.0 ft. and 35.0 ft.
______ ft. and ______ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 25.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
______ ft. after ______ hrs. Pumping ______ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 18.0 ft. to 35.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ______
Depth: From 0.0 ft. to 15.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ______
Well Disinfected ☐ Yes ☐ No Type: ______ Amount: ______

18. PUMP: Date installed: ______ Not installed ☐
Mfr. Name: ______ Model No.: ______
H.P. ______ Volts ______ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	35.0	35.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-12 BENTONITE SEAL FROM 15.0 TO 18.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 35.0 ft. Date Started: 10/07/10 Date Completed: 10/07/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 20.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 20.0 ft. and 35.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 18.0 ft. to 35.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 15.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD STATESVILLE, NC 28625
Level: A B C D (circle one) ☐ ☑ ☐ ☐
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE CLAY	4.0	4.0
TAN SANDY CLAY	26.0	30.0
PARTIALLY WEATHERED ROCK	6.0	36.0
ROCK	4.0	40.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-13 BENTONITE SEAL FROM 20.0 TO 23.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 40.0 ft. Date Started: 10/05/10 Date Completed: 10/05/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 25.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐ Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 25.0 ft. and 40.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 23.0 ft. to 40.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0.0 ft. to 20.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	37.0	37.0
PARTIALLY WEATHERED ROCK	3.0	40.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-14 BENTONITE SEAL FROM 20.0 TO 23.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10/11/10
40.0 ft. Date Completed: 10/11/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 25.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 25.0 ft. and 40.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 23.0 ft. to 40.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0.0 ft. to 20.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD Level: A ☐ B ☑ C ☐ D ☐ (circle one)
STATESVILLE, NC 28625
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	34.0	34.0
PARTIALLY WEATHERED ROCK	6.0	40.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-15 BENTONITE SEAL FROM 20.0 TO 23.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10/11/10
40.0 ft. Date Completed: 10/11/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 25.0 ft. depth
____ in. to ____ ft. depth
Height: Above☐ Below☐ Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 25.0 ft. and 40.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 23.0 ft. to 40.0 ft.
Effective size 1.43 Uniformly Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0.0 ft. to 20.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD Level: A ☐ B ☑ C ☐ D ☐ (circle one)
STATESVILLE, NC 28625
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILT	30.0	30.0
PARTIALLY WEATHERED ROCK	7.0	37.0
ROCK	3.0	40.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-16 BENTONITE SEAL FROM 20.0 TO 23.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10/13/10
40.0 ft. Date Completed: 10/13/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 25.0 ft. depth
____ in. to ____ ft. depth
Height: Above☐ Below☐
Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 25.0 ft. and 40.0 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 23.0 ft. to 40.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 20.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ______ ft. to ______ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILT	35.0	35.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-17 BENTONITE SEAL FROM 15.0 TO 18.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 35.0 ft.
Date Started: 10/13/10
Date Completed: 10/13/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 20.0 ft. depth
______ in. to ______ ft. depth
Height: Above☐ Below☐
Surface 0.0 ft.
Weight ______ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 20.0 ft. and 35.0 ft.
______ ft. and ______ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
______ ft. after ______ hrs. Pumping ______ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 18.0 ft. to 35.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ______
Depth: From 0.0 ft. to 15.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ______ ft. ______ direction
Type ______
Well Disinfected ☐ Yes ☐ No Type: ______ Amount: ______

18. PUMP: Date installed: ______ Not installed ☐
Mfr. Name: ______ Model No.: ______
H.P. ______ Volts ______ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY
(last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILT	26.0	26.0
PARTIALLY WEATHERED ROCK	6.0	32.0
ROCK	3.0	35.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-18 BENTONITE SEAL FROM 15.0 TO 18.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10/13/10
35.0 ft. Date Completed: 10/13/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 20.0 ft. depth
____ in. to ____ ft. depth
Height: Above☐ Below☐ Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 20.0 ft. and 35.0 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 18.0 ft. to 35.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0.0 ft. to 15.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILT	32.0	32.0
ROCK	6.0	38.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-19 BENTONITE SEAL FROM 18.0 TO 21.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 38.0 ft. Date Started: 10/13/10 Date Completed: 10/13/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 23.0 ft. depth
____ in. to ____ ft. depth
Height: Above☐ Below☐
Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 23.0 ft. and 38.0 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 21.0 ft. to 38.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0.0 ft. to 18.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ______ ft. to ______ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
BROWN SILTY CLAY	3.0	3.0
BROWN SILT	39.0	42.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-20 BENTONITE SEAL FROM 22.0 TO 25.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 42.0 ft. Date Started: 11/29/10 Date Completed: 11/29/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 27.0 ft. depth
______ in. to ______ ft. depth
Height: Above ☑ Below ☐ Surface 3.0 ft.
Weight ______ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 27.0 ft. and 42.0 ft. **NOTE: MULTIPLE SCREENS**
______ ft. and ______ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 32.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
______ ft. after ______ hrs. Pumping ______ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 25.0 ft. to 42.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 22.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type
Well Disinfected ☐ Yes ☐ No Type: ______ Amount: ______

18. PUMP: Date installed: ______ Not installed ☐
Mfr. Name: ______ Model No.: ______
H.P. ______ Volts ______ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 12/06/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	3.0	3.0
BROWN SILTY CLAY	2.0	5.0
BROWN SILT	30.0	35.0
ROCK	5.0	40.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-21 BENTONITE SEAL FROM 20.0 TO 23.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 11/29/10
40.0 ft. Date Completed: 11/29/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 25.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 25.0 ft. and 40.0 ft. **NOTE: MULTIPLE SCREENS**
____ ft. and ____ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 23.0 ft. to 40.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 20.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine
☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD Level: A B C D (circle one) ☐ ☑ ☐ ☐
STATESVILLE, NC 28625
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 12/06/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY
(last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	3.0	3.0
BROWN SILT	34.0	37.0
GRAY SILT	3.0	40.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-22 BENTONITE SEAL FROM 20.0 TO 23.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 11/30/10
40.0 ft. Date Completed: 11/30/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 25.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 25.0 ft. and 40.0 ft. **NOTE: MULTIPLE SCREENS**
____ ft. and ____ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 23.0 ft. to 40.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 20.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 12/06/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003)

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D H E C
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY
(last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	3.0	3.0
GRAY SILTY CLAY	2.0	5.0
BROWN SILT	29.0	34.0
GRAY SILT	3.0	37.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-23 BENTONITE SEAL FROM 17.0 TO 20.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Dug ☐ Cable tool ☐ Jetted ☑ Air Rotary ☐ Other ☐ Bored ☐ Driven

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Irrigation ☐ Test Well ☐ Public Supply ☐ Air Conditioning ☑ Monitor Well ☐ Process ☐ Emergency ☐ Replacement

9. WELL DEPTH (completed) Date Started: 11/30/10
37.0 ft. Date Completed: 11/30/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 22.0 ft. depth
____ in. to ____ ft. depth
Height: Above☐ Below☐
Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 22.0 ft. and 37.0 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 27.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 20.0 ft. to 37.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 17.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 12/06/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
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Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	3.0	3.0
BROWN SILT	25.0	28.0
PARTIALLY WEATHERED ROCK	7.0	35.0
ROCK	5.0	40.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-24 BENTONITE SEAL FROM 20.0 TO 23.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 40.0 ft. Date Started: 12/01/10 Date Completed: 12/01/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 25.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 25.0 ft. and 40.0 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 23.0 ft. to 40.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 20.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 12/06/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY
(last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	3.0	3.0
BROWN SILT	21.0	24.0
GRAY SILT	16.0	40.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-25 BENTONITE SEAL FROM 20.0 TO 23.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 40.0 ft. Date Started: 12/01/10 Date Completed: 12/01/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 25.0 ft. depth
____ in. to ____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 25.0 ft. and 40.0 ft. **NOTE: MULTIPLE SCREENS USE SECOND SHEET**
____ ft. and ____ ft.
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 23.0 ft. to 40.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 20.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 12/06/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY
(last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ______ ft. to ______ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
BROWN SILTY CLAY	3.0	3.0
BROWN SILT	22.0	25.0
BROWN/GRAY SILTY PARTIALLY WEATHERED ROCK	15.0	40.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-26 BENTONITE SEAL FROM 19.0 TO 22.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 12/01/10
39.0 ft. Date Completed: 12/01/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 24.0 ft. depth
______ in. to ______ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight ______ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 24.0 ft. and 39.0 ft. **NOTE: MULTIPLE SCREENS**
______ ft. and ______ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 29.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
______ ft. after ______ hrs. Pumping ______ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 22.0 ft. to 39.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ______
Depth: From 0.0 ft. to 19.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ______
Well Disinfected ☐ Yes ☐ No Type: ______ Amount: ______

18. PUMP: Date installed: ______ Not installed ☐
Mfr. Name: ______ Model No.: ______
H.P. ____ Volts ____ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A B C D (circle one) ☐ ☑ ☐ ☐
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 12/06/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ______ ft. to ______ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	3.0	3.0
ORANGE SILT	7.0	10.0
BROWN SILT	16.0	26.0
PARTIALLY WEATHERED ROCK	6.0	32.0
ROCK	3.0	35.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-27 BENTONITE SEAL FROM 15.0 TO 18.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 11/29/10
35.0 ft. Date Completed: 11/29/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 20.0 ft. depth
______ in. to ______ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight ______ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 20.0 ft. and 35.0 ft. **NOTE: MULTIPLE SCREENS**
______ ft. and ______ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 25.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
______ ft. after ______ hrs. Pumping ______ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield: ______

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 18.0 ft. to 35.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ______
Depth: From 0.0 ft. to 15.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ______
Well Disinfected ☐ Yes ☐ No Type: ______ Amount: ______

18. PUMP: Date installed: ______ Not installed ☐
Mfr. Name: ______ Model No.: ______
H.P. ______ Volts ______ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine
☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 12/06/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

DHEC

PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ______ ft. to ______ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	3.0	3.0
ORANGE SILT	3.0	6.0
BROWN SILT	28.0	34.0
ROCK	6.0	40.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
MW-28 BENTONITE SEAL FROM 20.0 TO 23.0 FT.

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 40.0 ft.
Date Started: 11/29/10
Date Completed: 11/29/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 25.0 ft. depth
______ in. to ______ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight ______ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 15.0 FEET
Set Between: 25.0 ft. and 40.0 ft.
______ ft. and ______ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
______ ft. after ______ hrs. Pumping ______ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 23.0 ft. to 40.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 20.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ______ ft. ______ direction
Type ______
Well Disinfected ☐ Yes ☐ No Type: ______ Amount: ______

18. PUMP: Date installed: ______ Not installed ☐
Mfr. Name: ______ Model No.: ______
H.P. ______ Volts ______ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins
Well Driller
Date: 12/06/10

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ______ ft. to ______ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
TAN SANDY SILTY CLAY	30.0	30.0
PARTIALLY WEATHERED ROCK	18.0	48.0
ROCK	15.0	63.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
TW-1 BENTONITE SEAL FROM 53.0 TO 56.0 FT. 6 INCH PVC CASING GROUTED FROM 0.0 TO 55.0 FT

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 63.0 ft. Date Started: 10/05/10 Date Completed: 10/06/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH, 6 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 58.0 ft. depth
6.0 in. to 55.0 ft. depth
Height: Above ☐ Below ☐ Surface 0.0 ft.
Weight ______ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 5.0 FEET
Set Between: 58.0 ft. and 63.0 ft. NOTE: MULTIPLE SCREENS
______ ft. and ______ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
______ ft. after ______ hrs. Pumping ______ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 56.0 ft. to 63.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 53.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ______
Well Disinfected ☐ Yes ☐ No Type: ______ Amount: ______

18. PUMP: Date installed: ______ Not installed ☐
Mfr. Name: ______ Model No.: ______
H.P. ______ Volts ______ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE CLAY	4.0	4.0
ORANGE/TAN SILTY CLAY	16.0	20.0
TAN SILT	10.0	30.0
GRAY SILT	14.0	44.0
BROKEN ROCK	22.0	66.0
ROCK	14.0	80.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
TW-2 BENTONITE SEAL FROM 70.0 TO 73.0 FT. 6 INCH PVC CASING GROUTED FROM 0.0 TO 72.0 FT

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10/04/10
80.0 ft. Date Completed: 10/05/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH, 6 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 75.0 ft. depth
6.0 in. to 72.0 ft. depth
Height: Above☐ Below☐ Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 5.0 FEET
Set Between: 75.0 ft. and 80.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 73.0 ft. to 80.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0.0 ft. to 70.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ______ ft. to ______ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SANDY CLAY	40.0	40.0
BROWN SANDY SILT	28.0	68.0
ROCK	12.0	80.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
TW-3 BENTONITE SEAL FROM 70.0 TO 73.0 FT. 6 INCH PVC CASING GROUTED FROM 0.0 TO 72.0 FT

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10/06/10
80.0 ft. Date Completed: 10/07/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH, 6 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 75.0 ft. depth
6.0 in. to 72.0 ft. depth
Height: Above ☐ Below ☐ Surface 0.0 ft.
Weight ______ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 5.0 FEET
Set Between: 75.0 ft. and 80.0 ft. NOTE: MULTIPLE SCREENS
______ ft. and ______ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
______ ft. after ______ hrs. Pumping ______ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 73.0 ft. to 80.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ______
Depth: From 0.0 ft. to 70.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ______
Well Disinfected ☐ Yes ☐ No Type: ______ Amount: ______

18. PUMP: Date installed: ______ Not installed ☐
Mfr. Name: ______ Model No.: ______
H.P. ______ Volts ______ Length of drop pipe ___ ft. Capacity ___ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILT	33.0	33.0
ROCK	12.0	45.0
PARTIALLY WEATHERED ROCK	10.0	55.0
ROCK	13.0	68.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
TW-4 BENTONITE SEAL FROM 58.0 TO 61.0 FT. 6 INCH PVC CASING GROUTED FROM 0.0 TO 60.0 FT

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10/12/10
68.0 ft. Date Completed: 10/13/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH, 6 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 63.0 ft. depth
6.0 in. to 60.0 ft. depth
Height: Above☐ Below☐ Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 5.0 FEET
Set Between: 63.0 ft. and 68.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 61.0 ft. to 68.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 58.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003)

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SANDY CLAY	28.0	28.0
PARTIALLY WEATHERED ROCK	12.0	40.0
ROCK	18.0	58.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
TW-5 BENTONITE SEAL FROM 48.0 TO 51.0 FT. 6 INCH PVC CASING GROUTED FROM 0.0 TO 50.0 FT

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 58.0 ft. Date Started: 10/06/10 Date Completed: 10/07/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH, 6 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 53.0 ft. depth
6.0 in. to 50.0 ft. depth
Height: Above☐ Below☐
Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 5.0 FEET
Set Between: 53.0 ft. and 58.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 51.0 ft. to 58.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0.0 ft. to 48.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ______ ft. to ______ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	30.0	30.0
PARTIALLY WEATHERED ROCK	7.0	37.0
ROCK	21.0	58.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
TW-6 BENTONITE SEAL FROM 48.0 TO 51.0 FT. 6 INCH PVC CASING GROUTED FROM 0.0 TO 50.0 FT

6. TYPE: ☐ Mud Rotary ☐ Dug ☐ Cable tool ☐ Jetted ☑ Air Rotary ☐ Other ☐ Bored ☐ Driven

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Irrigation ☐ Test Well ☐ Public Supply ☐ Air Conditioning ☑ Monitor Well ☐ Process ☐ Emergency ☐ Replacement

9. WELL DEPTH (completed) 58.0 ft. Date Started: 10/11/10 Date Completed: 10/13/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH, 6 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 53.0 ft. depth
6.0 in. to 50.0 ft. depth
Height: Above ☐ Below ☐ Surface 0.0 ft.
Weight ______ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 5.0 FEET
Set Between: 53.0 ft. and 58.0 ft. NOTE: MULTIPLE SCREENS
______ ft. and ______ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
______ ft. after ______ hrs. Pumping ______ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 51.0 ft. to 58.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 48.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type
Well Disinfected ☐ Yes ☐ No Type: ______ Amount: ______

18. PUMP: Date installed: ______ Not installed ☐
Mfr. Name: ______ Model No.: ______
H.P. ______ Volts ______ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY
(last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ______ ft. to ______ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILT	35.0	35.0
ROCK	23.0	58.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
TW-7 BENTONITE SEAL FROM 48.0 TO 51.0 FT. 6 INCH PVC CASING GROUTED FROM 0.0 TO 50.0 FT

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 58.0 ft. Date Started: 10/12/10 Date Completed: 10/12/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH, 6 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 53.0 ft. depth
6.0 in. to 50.0 ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight ______ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 5.0 FEET
Set Between: 53.0 ft. and 58.0 ft.
______ ft. and ______ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
______ ft. after ______ hrs. Pumping ______ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 51.0 ft. to 58.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 48.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type
Well Disinfected ☐ Yes ☐ No Type: ______ Amount: ______

18. PUMP: Date installed: ______ Not installed ☐
Mfr. Name: ______ Model No.: ______
H.P. ______ Volts ______ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A B C D (circle one) ☐ ☑ ☐ ☐
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC COUNTY: EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILT	32.0	32.0
ROCK	26.0	58.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
TW-8 BENTONITE SEAL FROM 48.0 TO 51.0 FT. 6 INCH PVC CASING GROUTED FROM 0.0 TO 50.0 FT

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 58.0 ft.
Date Started: 10/12/10
Date Completed: 10/13/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH, 6 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 53.0 ft. depth
6.0 in. to 50.0 ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 5.0 FEET
Set Between: 53.0 ft. and 58.0 ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 51.0 ft. to 58.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 48.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS CERT. NO.: 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 10/19/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY
(last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
BROWN SILTY CLAY	25.0	25.0
GRAY SILT	25.0	50.0
GRAY PARTIALLY WEATHERED ROCK	30.0	80.0

*Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:
TW-9 BENTONITE SEAL FROM 70.0 TO 73.0 FT. 6 INCH PVC CASING GROUTED FROM 0.0 TO 72.0 FT

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 11/30/10
80.0 ft. Date Completed: 12/01/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH, 6 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 75.0 ft. depth
6.0 in. to 72.0 ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 5.0 FEET
Set Between: 75.0 ft. and 80.0 ft. **NOTE: MULTIPLE SCREENS**
____ ft. and ____ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 30.0 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
____ ft. after ____ hrs. Pumping ____ G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 73.0 ft. to 80.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 70.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

18. PUMP: Date installed: ____ Not installed ☐
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD Level: A ☐ B ☑ C ☐ D ☐ (circle one)
STATESVILLE, NC 28625
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 12/06/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

DHEC
PROMOTE PROTECT PROSPER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: WILKERSON FUEL COMPANY (last) (first)
Address: PO BOX 2835
City: ROCK HILL State: SC Zip: 29732
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** EDGEFIELD
Name: 378 TRUCK STOP
Street Address: 731 HIGHWAY 378
City: EDGEFIELD Zip: 29824
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 0.0 ft. to 80.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ORANGE SILTY CLAY	3.0	3.0
BROWN SILT	25.0	28.0
PARTIALLY WEATHERED ROCK	7.0	35.0
ROCK	45.0	80.0
ABANDONED BY GEOLOGIC		
EXPLORATION, INC ON 12/02/10		
VIA TREMIE PIPE WITH		
PORTLAND BENTONITE SLURRY		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
TW-10 (6 INCH PVC CASING
GROUTED FROM 0.0 TO 40.0 FT)

6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug ☑ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 80.0 ft.
Date Started: 11/30/10
Date Completed: 12/02/10

10. CASING: ☑ Threaded ☐ Welded
Diam.: 6 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
6.0 in. to 40.0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft. and ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
ft. after hrs. Pumping G.P.M.
Pumping Test: ☐ Yes (please enclose) ☐ No
Yield:

14. WATER QUALITY
Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0.0 ft. to 80.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount:

18. PUMP: Date installed: Not installed ☐
Mfr. Name: Model No.:
H.P. Volts Length of drop pipe ft. Capacity gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: JERRY WATKINS **CERT. NO.:** 01979
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Jerry Watkins Date: 12/06/10
Well Driller

If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

APPENDIX C

Laboratory Analytical Reports: Soil Samples

Pace Analytical®
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2225 Riverside Dr.
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(828)254-7176

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 19, 2010

Ms. Christine Dupuis
Environmental Compliance Servi
13504 South Point Blvd
Charlotte, NC 28273

RE: Project: 378 Truck Stop 14-214210
Pace Project No.: 9279432

Dear Ms. Dupuis:

Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project:	378 Truck Stop 14-214210
Pace Project No.:	9279432

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: 378 Truck Stop 14-214210
Pace Project No.: 9279432

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9279432001	**MW-6**	Solid	10/05/10 10:20	10/08/10 17:00
9279432002	**MW-7**	Solid	10/04/10 12:25	10/08/10 17:00
9279432003	**MW-8**	Solid	10/06/10 08:50	10/08/10 17:00
9279432005	**MW 12**	Solid	10/07/10 14:00	10/08/10 17:00

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(704)875-9092

SAMPLE ANALYTE COUNT

Project: 378 Truck Stop 14-214210
Pace Project No.: 9279432

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9279432001	**MW-6**	EPA 8260	DLK	10	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
9279432002	**MW-7**	EPA 8260	DLK	10	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
9279432003	**MW-8**	EPA 8260	DLK	10	PASI-C
		ASTM D2974-87	KDF	1	PASI-C

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9279432

Sample: MW-6 **Lab ID: 9279432001** Collected: 10/05/10 10:20 Received: 10/08/10 17:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	5.5	1.8	1		10/13/10 06:38	71-43-2	
Ethylbenzene	ND	ug/kg	5.5	2.0	1		10/13/10 06:38	100-41-4	
Naphthalene	ND	ug/kg	5.5	1.3	1		10/13/10 06:38	91-20-3	
Toluene	ND	ug/kg	5.5	2.0	1		10/13/10 06:38	108-88-3	
m&p-Xylene	ND	ug/kg	11.1	4.0	1		10/13/10 06:38	179601-23-1	
o-Xylene	ND	ug/kg	5.5	2.1	1		10/13/10 06:38	95-47-6	
Dibromofluoromethane (S)	100	%	70-130		1		10/13/10 06:38	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/13/10 06:38	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		1		10/13/10 06:38	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-132		1		10/13/10 06:38	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.6**	%	0.10	0.10	1		10/11/10 14:21		

Sample: MW-7 **Lab ID: 9279432002** Collected: 10/04/10 12:25 Received: 10/08/10 17:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	44.7	14.3	10		10/14/10 12:04	71-43-2	D3
Ethylbenzene	**31.4J**	ug/kg	44.7	16.1	10		10/14/10 12:04	100-41-4	
Naphthalene	**25.8J**	ug/kg	44.7	10.7	10		10/14/10 12:04	91-20-3	
Toluene	**34.6J**	ug/kg	44.7	16.1	10		10/14/10 12:04	108-88-3	
m&p-Xylene	**136**	ug/kg	89.3	32.2	10		10/14/10 12:04	179601-23-1	
o-Xylene	**50.7**	ug/kg	44.7	17.0	10		10/14/10 12:04	95-47-6	
Dibromofluoromethane (S)	88	%	70-130		10		10/14/10 12:04	1868-53-7	
Toluene-d8 (S)	99	%	70-130		10		10/14/10 12:04	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		10		10/14/10 12:04	460-00-4	
1,2-Dichloroethane-d4 (S)	79	%	70-132		10		10/14/10 12:04	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.4**	%	0.10	0.10	1		10/11/10 14:21		

Sample: MW-8 **Lab ID: 9279432003** Collected: 10/06/10 08:50 Received: 10/08/10 17:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	5.5	1.8	1		10/13/10 06:56	71-43-2	

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210

Pace Project No.: 9279432

Sample: MW-8 **Lab ID: 9279432003** Collected: 10/06/10 08:50 Received: 10/08/10 17:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Ethylbenzene	ND	ug/kg	5.5	2.0	1		10/13/10 06:56	100-41-4	
Naphthalene	ND	ug/kg	5.5	1.3	1		10/13/10 06:56	91-20-3	
Toluene	ND	ug/kg	5.5	2.0	1		10/13/10 06:56	108-88-3	
m&p-Xylene	ND	ug/kg	11.0	4.0	1		10/13/10 06:56	179601-23-1	
o-Xylene	ND	ug/kg	5.5	2.1	1		10/13/10 06:56	95-47-6	
Dibromofluoromethane (S)	98	%	70-130		1		10/13/10 06:56	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/13/10 06:56	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		1		10/13/10 06:56	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-132		1		10/13/10 06:56	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.9**	%	0.10	0.10	1		10/11/10 14:21		

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9279432

QC Batch: MSV/12618
Analysis Method: EPA 8260
QC Batch Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9279432001, 9279432003

METHOD BLANK: 510813
Matrix: Solid
Associated Lab Samples: 9279432001, 9279432003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	10/13/10 01:06	
Ethylbenzene	ug/kg	ND	5.0	10/13/10 01:06	
m&p-Xylene	ug/kg	ND	10.0	10/13/10 01:06	
Naphthalene	ug/kg	ND	5.0	10/13/10 01:06	
o-Xylene	ug/kg	ND	5.0	10/13/10 01:06	
Toluene	ug/kg	ND	5.0	10/13/10 01:06	
1,2-Dichloroethane-d4 (S)	%	95	70-132	10/13/10 01:06	
4-Bromofluorobenzene (S)	%	102	70-130	10/13/10 01:06	
Dibromofluoromethane (S)	%	96	70-130	10/13/10 01:06	
Toluene-d8 (S)	%	103	70-130	10/13/10 01:06	

LABORATORY CONTROL SAMPLE: 510814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	50	49.9	100	70-130	
Ethylbenzene	ug/kg	50	47.3	95	70-137	
m&p-Xylene	ug/kg	100	95.4	95	70-140	
Naphthalene	ug/kg	50	50.8	102	70-148	
o-Xylene	ug/kg	50	49.1	98	70-141	
Toluene	ug/kg	50	48.9	98	70-130	
1,2-Dichloroethane-d4 (S)	%			91	70-132	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 511051

Parameter	Units	9279432003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	ND	55.2	55.2	100	50-166	
Toluene	ug/kg	ND	55.2	55.8	101	52-163	
1,2-Dichloroethane-d4 (S)	%				92	70-132	
4-Bromofluorobenzene (S)	%				101	70-130	
Dibromofluoromethane (S)	%				94	70-130	
Toluene-d8 (S)	%				99	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9279432

SAMPLE DUPLICATE: 511050

Parameter	Units	9279354002 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/kg	ND	ND		30	
Ethylbenzene	ug/kg	ND	ND		30	
m&p-Xylene	ug/kg	ND	ND		30	
Naphthalene	ug/kg	ND	6.6		30	C8
o-Xylene	ug/kg	ND	ND		30	
Toluene	ug/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	93	89	8		
4-Bromofluorobenzene (S)	%	100	99	11		
Dibromofluoromethane (S)	%	96	93	9		
Toluene-d8 (S)	%	103	100	10		

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9279432

QC Batch: MSV/12649
Analysis Method: EPA 8260
QC Batch Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9279432002

METHOD BLANK: 511920
Matrix: Solid
Associated Lab Samples: 9279432002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	10/14/10 11:09	
Ethylbenzene	ug/kg	ND	5.0	10/14/10 11:09	
m&p-Xylene	ug/kg	ND	10.0	10/14/10 11:09	
Naphthalene	ug/kg	3.1J	5.0	10/14/10 11:09	
o-Xylene	ug/kg	ND	5.0	10/14/10 11:09	
Toluene	ug/kg	ND	5.0	10/14/10 11:09	
1,2-Dichloroethane-d4 (S)	%	87	70-132	10/14/10 11:09	
4-Bromofluorobenzene (S)	%	102	70-130	10/14/10 11:09	
Dibromofluoromethane (S)	%	94	70-130	10/14/10 11:09	
Toluene-d8 (S)	%	102	70-130	10/14/10 11:09	

LABORATORY CONTROL SAMPLE: 511921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	50	52.7	105	70-130	
Ethylbenzene	ug/kg	50	53.1	106	70-137	
m&p-Xylene	ug/kg	100	108	108	70-140	
Naphthalene	ug/kg	50	50.7	101	70-148	
o-Xylene	ug/kg	50	53.7	107	70-141	
Toluene	ug/kg	50	54.4	109	70-130	
1,2-Dichloroethane-d4 (S)	%			86	70-132	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			92	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 511922 511923

Parameter	Units	9279277014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	49	50.3	40.7	44.4	83	88	50-166	9	30	
Toluene	ug/kg	ND	49	50.3	40.7	43.1	83	86	52-163	6	30	
1,2-Dichloroethane-d4 (S)	%						84	83	70-132			
4-Bromofluorobenzene (S)	%						98	100	70-130			
Dibromofluoromethane (S)	%						92	91	70-130			
Toluene-d8 (S)	%						94	94	70-130			

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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9279432

QC Batch: PMST/3497 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9279432001, 9279432002, 9279432003

SAMPLE DUPLICATE: 510005

Parameter	Units	9279386001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	25.7	16.2	45	25	R1

SAMPLE DUPLICATE: 510006

Parameter	Units	9279411005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	27.9	26.5	5	25	

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QUALIFIERS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9279432

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

C8	Result may be biased high due to carryover from previously analyzed sample.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 Truck Stop 14-214210
Pace Project No.: 9279432

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9279432001	**MW-6**	EPA 8260	MSV/12618		
9279432002	**MW-7**	EPA 8260	MSV/12649		
9279432003	**MW-8**	EPA 8260	MSV/12618		
9279432001	**MW-6**	ASTM D2974-87	PMST/3497		
9279432002	**MW-7**	ASTM D2974-87	PMST/3497		
9279432003	**MW-8**	ASTM D2974-87	PMST/3497		

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October 18, 2010

Mr. Kevin Herring

Subject: **Laboratory Test Results**
Pace Job Number 9279432
Shield Job Number 1100026-01
LRF # 10-155

Dear Mr. Herring:

As requested Shield Engineering Inc., has completed the laboratory testing on the above referenced project. The test results for Grain Size Analysis are attached to this letter.

The laboratory tests were provided in accordance with the applicable ASTM Standards. The test samples were obtained by a representative of Shield Engineering, and then delivered to Shield's Charlotte, North Carolina laboratory for testing.

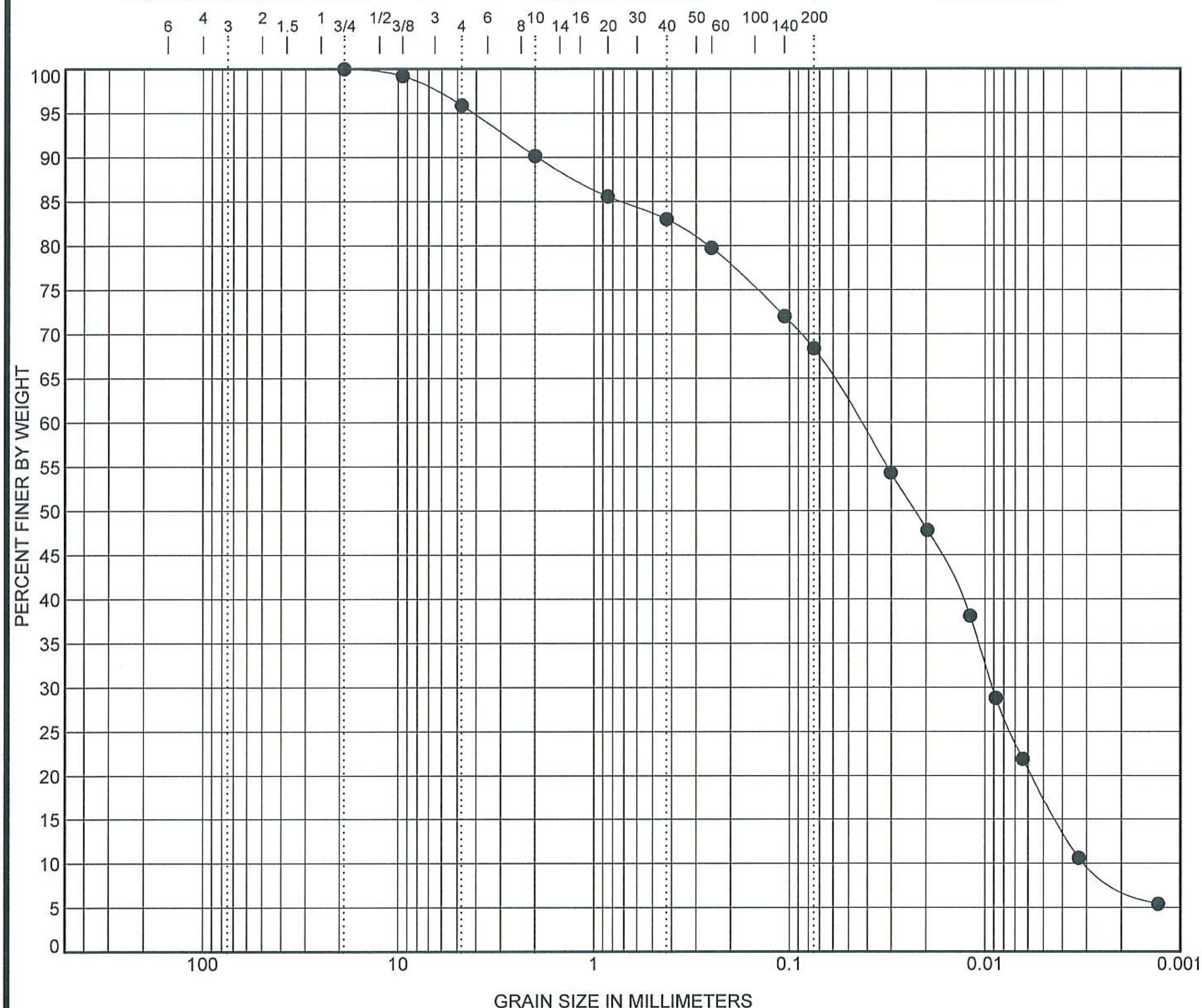
If you have any questions concerning our test results, please do not hesitate to call our office at (704) 394-6913.

Sincerely,

Shield Engineering, Inc.

Josh Slusarczyk
Laboratory Manager

GRAIN SIZE DISTRIBUTION



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification		Classification	LL	PL	PI	Cc	Cu
● **MW-12**	-'					**0.65**	**14.73**

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● **MW-12**	-'	**19**	**0.044**	**0.009**	**0.003**	**4.1**	**27.5**	**50.7**	**17.7**

SHIELD ENGINEERING, INC.

4301 Taggart Creek Road
Charlotte, NC 28208
Telephone: 704-394-6913
Toll Free: 800-395-5220
Fax: 704-394-6968

Pace Project No.: 9279432
Pace Lab ID: 9279432005
Pace Analytical
Shield Project No.: 1100026-01

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page:	1	of	1

1365781

Section A
Required Client Information:

- Company: Environmental Compliance serv.
- Address: 13504 S. Point Blvd. Unit F
- Charlotte, NC 28273
- Email To: CDupuis@elsconsult.com
- Phone: 7045872711
- Fax:
- Requested Due Date/TAT:

Section B
Required Project Information:

- Report To: Christine Dupuis
- Copy To:
- Purchase Order No.:
- Project Name: 378 TRUCK STOP
- Project Number: 14-214210

Section C
Invoice Information:

- Attention: Christina White
- Company Name: ELS
- Address: 588 Silver St, Agawam MA 01001
- Pace Quote Reference:
- Pace Project Manager: Kevin Herring
- Pace Profile #: 2291-4

REGULATORY AGENCY

- ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
- ☑ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: SC

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes	MATRIX / CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX, Napa	Grain size/Hydrometer	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9279432
1	MW-6	SL	G			10/5	10:20								X	X			X			001
2	MW-7					10/4	12:25															002
3	MW-8					10/6	~~10~~8:50															003
4	TW-5					10/7	10:55			X										X		004
5	MW 12					10/7	14:00			X										X		005
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Report J values	Ryan Byas / ELS	10/8	13:00	[signature] / Pace	10/08/10	1510				
	[signature] / Pace	10/08/10	1700	J Moore / Pace	10/8	1700	3.1	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

- PRINT Name of SAMPLER: Ryan Byas
- SIGNATURE of SAMPLER: Ryan Byas
- DATE Signed (MM/DD/YY): 10/08/10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: ECS Project # 9279432

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other________

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other________

Thermometer Used: IR Gun : T809 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor: **Add / Subtract** 0 C

Corrected Cooler Temp.: 3.1 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: M 10/18

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:________		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):________		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: ____________ Date/Time: ____________

Comments/ Resolution: ____________

CURF Review: KH **Date:** 10/11/10 **SRF Review:** KH **Date:** 10/11/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-CHR-CS-003-rev.01

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October 18, 2010

Ms. Christine Dupuis
Environmental Compliance Servi
13504 South Point Blvd
Charlotte, NC 28273

RE: Project: 378 TRUCK STOP
Pace Project No.: 9279802

Dear Ms. Dupuis:

Enclosed are the analytical results for sample(s) received by the laboratory on October 14, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project:	378 TRUCK STOP
Pace Project No.:	9279802

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031

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SAMPLE SUMMARY

Project: 378 TRUCK STOP
Pace Project No.: 9279802

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9279802001	**MW-12 @20'**	Solid	10/07/10 14:00	10/14/10 13:30
9279802002	**MW-13 @20'**	Solid	10/07/10 13:30	10/14/10 13:30

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SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP
Pace Project No.: 9279802

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9279802001	**MW-12 @20'**	EPA 8260	DLK	10	PASI-C
		ASTM D2974-87	TNM	1	PASI-C
9279802002	**MW-13 @20'**	EPA 8260	DLK	10	PASI-C
		ASTM D2974-87	TNM	1	PASI-C

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9279802

Sample: MW-12 @20' **Lab ID: 9279802001** Collected: 10/07/10 14:00 Received: 10/14/10 13:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	5.3	1.7	1		10/17/10 11:31	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1.9	1		10/17/10 11:31	100-41-4	
Naphthalene	**1.6J**	ug/kg	5.3	1.3	1		10/17/10 11:31	91-20-3	
Toluene	ND	ug/kg	5.3	1.9	1		10/17/10 11:31	108-88-3	
m&p-Xylene	ND	ug/kg	10.6	3.8	1		10/17/10 11:31	179601-23-1	
o-Xylene	ND	ug/kg	5.3	2.0	1		10/17/10 11:31	95-47-6	
Dibromofluoromethane (S)	104	%	70-130		1		10/17/10 11:31	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/17/10 11:31	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/17/10 11:31	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-132		1		10/17/10 11:31	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.5**	%	0.10	0.10	1		10/15/10 13:22		

Sample: MW-13 @20' **Lab ID: 9279802002** Collected: 10/07/10 13:30 Received: 10/14/10 13:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260								
Benzene	ND	ug/kg	4.7	1.5	1		10/17/10 11:49	71-43-2	
Ethylbenzene	ND	ug/kg	4.7	1.7	1		10/17/10 11:49	100-41-4	
Naphthalene	ND	ug/kg	4.7	1.1	1		10/17/10 11:49	91-20-3	
Toluene	ND	ug/kg	4.7	1.7	1		10/17/10 11:49	108-88-3	
m&p-Xylene	ND	ug/kg	9.4	3.4	1		10/17/10 11:49	179601-23-1	
o-Xylene	ND	ug/kg	4.7	1.8	1		10/17/10 11:49	95-47-6	
Dibromofluoromethane (S)	104	%	70-130		1		10/17/10 11:49	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/17/10 11:49	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		10/17/10 11:49	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-132		1		10/17/10 11:49	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.2**	%	0.10	0.10	1		10/15/10 13:23		

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9279802

QC Batch: MSV/12685 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9279802001, 9279802002

METHOD BLANK: 513294 | Matrix: Solid
Associated Lab Samples: 9279802001, 9279802002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	10/17/10 10:54	
Ethylbenzene	ug/kg	ND	5.0	10/17/10 10:54	
m&p-Xylene	ug/kg	ND	10.0	10/17/10 10:54	
Naphthalene	ug/kg	2.7J	5.0	10/17/10 10:54	
o-Xylene	ug/kg	ND	5.0	10/17/10 10:54	
Toluene	ug/kg	ND	5.0	10/17/10 10:54	
1,2-Dichloroethane-d4 (S)	%	103	70-132	10/17/10 10:54	
4-Bromofluorobenzene (S)	%	96	70-130	10/17/10 10:54	
Dibromofluoromethane (S)	%	101	70-130	10/17/10 10:54	
Toluene-d8 (S)	%	100	70-130	10/17/10 10:54	

LABORATORY CONTROL SAMPLE: 513295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	50	52.2	104	70-130	
Ethylbenzene	ug/kg	50	59.4	119	70-137	
m&p-Xylene	ug/kg	100	120	120	70-140	
Naphthalene	ug/kg	50	64.3	129	70-148	
o-Xylene	ug/kg	50	58.9	118	70-141	
Toluene	ug/kg	50	53.5	107	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-132	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9279802

QC Batch: PMST/3505 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9279802001, 9279802002

SAMPLE DUPLICATE: 512388

Parameter	Units	9279554003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	58.1	58.6	1	25	

SAMPLE DUPLICATE: 512395

Parameter	Units	9279818001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.8	12.2	5	25	

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QUALIFIERS

Project: 378 TRUCK STOP
Pace Project No.: 9279802

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

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ACCREDITED IN ACCORDANCE WITH nelac

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 TRUCK STOP
Pace Project No.: 9279802

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9279802001	**MW-12 @20'**	EPA 8260	MSV/12685		
9279802002	**MW-13 @20'**	EPA 8260	MSV/12685		
9279802001	**MW-12 @20'**	ASTM D2974-87	PMST/3505		
9279802002	**MW-13 @20'**	ASTM D2974-87	PMST/3505		

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1350141

Section A
Required Client Information:

Company:	ECS
Address:	13504 South Point Blvd, Unit F Charlotte, NC
Email To:	cdupuis@ecsconsult.com
Phone:	704-583-2711
Fax:	704-583-2744
Requested Due Date/TAT:	Standard

Section B
Required Project Information:

Report To:	Christine Dupuis
Copy To:	
Purchase Order No.:	14-214210
Project Name:	378 Truck Stop
Project Number:	14-214210

Section C
Invoice Information:

Attention:	Christina White
Company Name:	ECS
Address:	Agawam, MA
Pace Quote Reference:	
Pace Project Manager:	Kevin Herring
Pace Profile #:	2291-4

REGULATORY AGENCY

- [ ] NPDES
- [ ] GROUND WATER
- [ ] DRINKING WATER
- [x] UST
- [ ] RCRA
- [ ] OTHER ______

Site Location STATE: SC

Section D
Required Client Information

Matrix Codes
MATRIX / CODE

Matrix	Code
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	EPA8260B BTEX+Naph												Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
1	MW12 @ 20'	SL	G			10/7/10	1400		4						X	X			X													001
2	MW-13 @ 20'	SL	G			10/5/10	1330		4						X	X			X													002
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Pace Project No.: ~~9279803~~ 9279802

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Please report J values	Christine Dupuis, ECS	10-13-10	15:00	J Moody - Pace	10-14-10	12:35				
	J Moody	10-14-10	13:30	J Moore / Pace	10/14	1330	3.6	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY):

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: ECS   Project # 9279802

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other________

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no   Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other________

Thermometer Used: IR Gun : T809   **Type of Ice:** Wet Blue None   ☐ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract ____0____ C

Corrected Cooler Temp.: 3.6 C   **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: TM 10/14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: ________		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):________		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: ____________________ Date/Time: ____________

Comments/ Resolution: ____________________

SCURF Review: KLH **Date:** 10/14/10 **SRF Review:** KLH **Date:** 10/15/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-CHR-CS-003-rev.01

APPENDIX D

Groundwater Sampling Field Data Sheets: October 18 & 19, 2010 and December 6, 2010

GAUGE REPORT

Environmental Compliance Services, Inc.
13504 South Point Blvd., Unit F
Charlotte, North Carolina 28273

Project Name 378 Truck Stop
Project No. 14-214210
Measured By A. Williamson

Location Edgefield, SC
Date 10/18/10
Weather Sunny, 80

Well ID	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Product Recovered (gallons)	Well Depth (feet)	Volume Purged (gallons)
MW-1	26.50	26.54	0.04	-----	NM	-----
MW-2	-----	27.10	-----	-----	41.37	6.98
MW-3	-----	27.58	-----	-----	40.08	0.00
MW-4	-----	26.20	-----	-----	40.02	0.00
MW-5	-----	30.24	-----	-----	39.79	0.00
MW-6	-----	28.01	-----	-----	35.10	2.32
MW-7	-----	25.10	-----	-----	34.97	4.83
MW-8	-----	25.45	-----	-----	35.14	4.74
MW-9	-----	30.31	-----	-----	35.22	0.80
MW-10	-----	29.73	-----	-----	40.21	5.12
MW-11	-----	28.75	-----	-----	35.29	1.07
MW-12	-----	29.63	-----	-----	34.99	1.74
MW-13	-----	27.63	-----	-----	40.19	6.14
MW-14	-----	29.99	-----	-----	39.79	2.40
MW-15	-----	30.32	-----	-----	40.13	3.20
MW-16	-----	30.79	-----	-----	40.17	4.58
MW-17	-----	23.74	-----	-----	35.01	5.51
MW-18	-----	22.02	-----	-----	35.72	6.70
MW-19	-----	27.62	-----	-----	38.62	5.38
TW-1	-----	28.44	-----	-----	63.33	17.06
TW-2	-----	29.57	-----	-----	80.29	11.77
TW-3	-----	25.39	-----	-----	80.69	18.02
TW-4	-----	43.13	-----	-----	68.55	6.21
TW-5	-----	29.69	-----	-----	58.44	7.04
TW-6	-----	31.22	-----	-----	58.60	6.46
TW-7	-----	50.90	-----	-----	58.96	2.62
TW-8	-----	28.18	-----	-----	58.60	8.96
WSW-1	NOT GAUGED					
WSW-2						
WSW-3						
WSW-4						
WSW-5						
WSW-6						
WSW-7						
WSW-8						
WSW-9						
WSW-10						

GAUGE REPORT

Environmental Compliance Services, Inc.
13504 South Point Blvd., Unit F
Charlotte, North Carolina 28273

Project Name	378 Truck Stop	Location	Edgefield, SC
Project No.	14-214210	Date	10/18/10
Measured By	A. Williamson	Weather	Sunny, 80

Well ID	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Product Recovered (gallons)	Well Depth (feet)	Volume Purged (gallons)
WSW-11	NOT GAUGED					
WSW-12						
WSW-13						
WSW-14						
WSW-15						

Remarks: NM = not measured.
No-purge lead samples were collected for all new wells.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/18/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter ______ Conductivity Meter ______
serial no. ______ serial no. ______
pH = 4.0 ______ Standard ______
pH = 7.0 ______ Standard ______
pH = 10.0 ______ Standard ______

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
-----	-----	-----	-----

Well # **MW-1**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) NM ft.
Depth to GW(DGW) 26.54 ft.
Depth to Liquid Phase Hydrocarbons (LPH) 26.50 ft.
Thickness of LPH (Thickness=DGW-Depth to LPH) 0.04 ft.
Length of Water Column (LWC=TWD-DGW) ---- ft.

1Csg. Vol. (LWC*C)= ---- X 0.163 = ---- gal.
3Csg. Volume = 3x ---- = ---- gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling ----- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
O.R.P. (mV)								
Temperature (°C)								
Specific Cond. (mS/cm)								
Dissolved Oxygen (mg/L)								
Turbidity (NTU)								

Remarks Free product detected. Groundwater sample not collected.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-2**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 41.37 ft.
Depth to GW(DGW) 27.10 ft.

Length of Water Column (LWC=TWD-DGW) 14.27 ft.

1Csg. Vol. (LWC*C)= 14.27 X 0.163 = 2.33 gal.
3Csg. Volume = 3x 2.33 = 6.98 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 6.98 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.33	2.33	2.33				0.00
Time (military)	15:55	16:00	16:05	16:11				12:10
pH (s.u.)	6.49	6.47	6.58	6.60				6.78
O.R.P. (mV)	-6	-15	-24	-18				4
Temperature (°C)	21.3	20.8	20.8	20.6				21.8
Specific Cond. (mS/cm)	0.461	0.452	0.453	0.448				0.473
Dissolved Oxygen (mg/L)	1.83	1.24	1.04	1.35				2.15
Turbidity (NTU)	269.0	>999	>999	>999				58.5

Remarks Purged on 10/18/10. Sample collected on 10/19/10.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/18/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **MW-3**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.08 ft.
Depth to GW(DGW) 27.58 ft.

Length of Water Column (LWC=TWD-DGW) 12.50 ft.

1Csg. Vol. (LWC*C)= 12.50 X 0.163 = 2.04 gal.
3Csg. Volume = 3x 2.04 = 6.11 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								16:45
pH (s.u.)								6.82
O.R.P. (mV)								79
Temperature (°C)								21.9
Specific Cond. (mS/cm)								0.550
Dissolved Oxygen (mg/L)								4.18
Turbidity (NTU)								214.0

Remarks

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/18/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-4**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.02 ft.
Depth to GW(DGW) 26.20 ft.

Length of Water Column (LWC=TWD-DGW) 13.82 ft.

1Csg. Vol. (LWC*C)= 13.82 X 0.163 = 2.25 gal.
3Csg. Volume = 3x 2.25 = 6.76 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								16:55
pH (s.u.)								6.79
O.R.P. (mV)								-33
Temperature (°C)								21.3
Specific Cond. (mS/cm)								0.523
Dissolved Oxygen (mg/L)								3.32
Turbidity (NTU)								81.1

Remarks

South Carolina Department of Health and Environmental Control

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/18/10

Field Personnel B. McNeill and A. Williamson

General Weather Conditions Cloudy

Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-5**

Well Diameter (D) 2.0 inch ______ or feet

conversion factor(C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD) 39.79 ft.

Depth to GW(DGW) 30.24 ft.

Length of Water Column (LWC=TWD-DGW) 9.55 ft.

1Csg. Vol. (LWC*C)= 9.55 X 0.163 = 1.56 gal.

3Csg. Volume = 3x 1.56 = 4.67 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								17:05
pH (s.u.)								6.43
O.R.P. (mV)								58
Temperature (°C)								19.3
Specific Cond. (mS/cm)								0.780
Dissolved Oxygen (mg/L)								2.17
Turbidity (NTU)								39.2

Remarks

South Carolina Department of Health and Environmental Control

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 ______ Standard ______
pH = 7.0 ______ Standard ______
pH = 10.0 ______ Standard ______

Chain of Custody

B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-6**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 35.10 ft.
Depth to GW(DGW) 28.01 ft.

Length of Water Column (LWC=TWD-DGW) 7.09 ft.

1Csg. Vol. (LWC*C)= 7.09 X 0.163 = 1.16 gal.
3Csg. Volume = 3x 1.16 = 3.47 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 2.32 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.16	1.16					0.00
Time (military)	16:35	16:39	16:45					12:25
pH (s.u.)	6.51	6.41	6.36					6.64
O.R.P. (mV)	201	211	215					176
Temperature (°C)	18.7	18.6	18.4					20.0
Specific Cond. (mS/cm)	0.180	0.172	0.159					0.159
Dissolved Oxygen (mg/L)	6.91	7.41	6.30					4.20
Turbidity (NTU)	67.5	>999	>999					46.0

Remarks Purged on 10/18/10. Sample collected on 10/19/10.
Purged dry after 2 well volumes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 ______ Standard ______
pH = 7.0 ______ Standard ______
pH = 10.0 ______ Standard ______

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **MW-7**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 34.97 ft.
Depth to GW(DGW) 25.10 ft.

Length of Water Column (LWC=TWD-DGW) 9.87 ft.

1Csg. Vol. (LWC*C)= 9.87 X 0.163 = 1.61 gal.
3Csg. Volume = 3x 1.61 = 4.83 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 4.83 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.61	1.61	1.61				0.00
Time (military)	16:15	16:19	16:24	16:28				12:15
pH (s.u.)	6.56	6.28	6.25	6.29				6.79
O.R.P. (mV)	150	186	195	199				132
Temperature (°C)	20.9	21.1	20.7	20.4				22.0
Specific Cond. (mS/cm)	0.171	0.122	0.150	0.169				0.273
Dissolved Oxygen (mg/L)	7.22	6.47	6.79	6.67				7.52
Turbidity (NTU)	249.0	>999	>999	>999				11.3

Remarks Purged on 10/18/10. Sample collected on 10/19/10.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **MW-8**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 35.14 ft.
Depth to GW(DGW) 25.45 ft.

Length of Water Column (LWC=TWD-DGW) 9.69 ft.

1Csg. Vol. (LWC*C)= 9.69 X 0.163 = 1.58 gal.
3Csg. Volume = 3x 1.58 = 4.74 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 4.74 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.58	1.58	1.58				0.00
Time (military)	15:35	15:41	15:44	15:48				12:00
pH (s.u.)	6.66	6.53	6.42	6.43				7.00
O.R.P. (mV)	261	265	269	266				225
Temperature (°C)	21.2	21.1	20.9	20.5				21.6
Specific Cond. (mS/cm)	0.642	0.610	0.644	0.667				0.745
Dissolved Oxygen (mg/L)	6.84	7.46	6.72	5.90				6.62
Turbidity (NTU)	154.0	>999	>999	>999				0.0

Remarks Purged on 10/18/10. Sample collected on 10/19/10.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **MW-9**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 35.22 ft.
Depth to GW(DGW) 30.31 ft.

Length of Water Column (LWC=TWD-DGW) 4.91 ft.

1Csg. Vol. (LWC*C)= 4.91 X 0.163 = 0.80 gal.
3Csg. Volume = 3x 0.80 = 2.40 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.80 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	0.80						0.00
Time (military)	13:52	13:54						9:25
pH (s.u.)	7.28	7.00						7.05
O.R.P. (mV)	109	142						157
Temperature (°C)	17.9	17.7						17.4
Specific Cond. (mS/cm)	0.695	0.698						0.719
Dissolved Oxygen (mg/L)	7.16	7.60						6.37
Turbidity (NTU)	>999	>999						53.2

Remarks Purged on 10/18/10. Sample collected on 10/19/10.
Purged dry after 1 well volume.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **MW-10**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.21 ft.
Depth to GW(DGW) 29.73 ft.

Length of Water Column (LWC=TWD-DGW) 10.48 ft.

1Csg. Vol. (LWC*C)= 10.48 X 0.163 = 1.71 gal.
3Csg. Volume = 3x 1.71 = 5.12 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 5.12 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.71	1.71	1.71				0.00
Time (military)	14:26	14:30	14:36	14:39				9:40
pH (s.u.)	9.87	8.82	8.17	7.93				9.85
O.R.P. (mV)	5	68	125	137				59
Temperature (°C)	18.3	18.5	18.1	17.9				17.8
Specific Cond. (mS/cm)	0.840	0.637	0.619	0.630				0.771
Dissolved Oxygen (mg/L)	7.41	7.65	7.01	7.25				6.73
Turbidity (NTU)	80.3	>999	>999	>999				40.9

Remarks Purged on 10/18/10. Sample collected on 10/19/10.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **MW-11**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 35.29 ft.
Depth to GW(DGW) 28.75 ft.

Length of Water Column (LWC=TWD-DGW) 6.54 ft.

1Csg. Vol. (LWC*C)= 6.54 X 0.163 = 1.07 gal.
3Csg. Volume = 3x 1.07 = 3.20 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 1.07 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.07						0.00
Time (military)	16:06	16:08						9:50
pH (s.u.)	7.16	7.30						8.66
O.R.P. (mV)	204	192						139
Temperature (°C)	18.2	18.3						18.1
Specific Cond. (mS/cm)	0.480	0.509						0.489
Dissolved Oxygen (mg/L)	6.83	7.10						5.29
Turbidity (NTU)	318.0	>999						70.4

Remarks Purged on 10/18/10. Sample collected on 10/19/10.
Purged dry after 1 well volume.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 ______ Standard ______
pH = 7.0 ______ Standard ______
pH = 10.0 ______ Standard ______

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **MW-12**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 34.99 ft.
Depth to GW(DGW) 29.63 ft.

Length of Water Column (LWC=TWD-DGW) 5.36 ft.

1Csg. Vol. (LWC*C)= 5.36 X 0.163 = 0.87 gal.
3Csg. Volume = 3x 0.87 = 2.62 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 1.74 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	0.87	0.87					0.00
Time (military)	15:12	15:14	15:17					10:15
pH (s.u.)	9.21	8.81	8.60					8.67
O.R.P. (mV)	71	87	92					129
Temperature (°C)	19.5	19.2	18.8					18.8
Specific Cond. (mS/cm)	0.421	0.448	0.389					0.414
Dissolved Oxygen (mg/L)	3.81	3.01	2.98					2.31
Turbidity (NTU)	162.0	>999	>999					87.9

Remarks Purged on 10/18/10. Sample collected on 10/19/10.
Purged dry after 2 well volumes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **MW-13**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.19 ft.
Depth to GW(DGW) 27.63 ft.

Length of Water Column (LWC=TWD-DGW) 12.56 ft.

1Csg. Vol. (LWC*C)= 12.56 X 0.163 = 2.05 gal.
3Csg. Volume = 3x 2.05 = 6.14 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 6.14 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.05	2.05	2.05				0.00
Time (military)	15:32	15:35	15:38	15:42				10:25
pH (s.u.)	7.42	7.32	7.09	7.05				7.64
O.R.P. (mV)	153	162	174	178				175
Temperature (°C)	19.3	18.4	18.3	18.2				18.7
Specific Cond. (mS/cm)	1.01	1.07	1.08	1.07				1.06
Dissolved Oxygen (mg/L)	6.82	6.51	5.55	6.61				6.98
Turbidity (NTU)	>999	>999	>999	>999				97.3

Remarks Purged on 10/18/10. Sample collected on 10/19/10.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 ______ Standard ______
pH = 7.0 ______ Standard ______
pH = 10.0 ______ Standard ______

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **MW-14**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 39.79 ft.
Depth to GW(DGW) 29.99 ft.

Length of Water Column (LWC=TWD-DGW) 9.80 ft.

1Csg. Vol. (LWC*C)= 9.80 X 0.163 = 1.60 gal.
3Csg. Volume = 3x 1.60 = 4.79 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 2.40 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.60	0.80					0.00
Time (military)	16:12	16:17						9:55
pH (s.u.)	7.28	7.09						7.86
O.R.P. (mV)	195	207						189
Temperature (°C)	17.6	17.3						17.2
Specific Cond. (mS/cm)	0.458	0.455						0.475
Dissolved Oxygen (mg/L)	6.85	7.55						6.26
Turbidity (NTU)	>999	>999						83.0

Remarks Purged on 10/18/10. Sample collected on 10/19/10.
Purged dry after 1.5 well volumes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **MW-15**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.13 ft.
Depth to GW(DGW) 30.32 ft.

Length of Water Column (LWC=TWD-DGW) 9.81 ft.

1Csg. Vol. (LWC*C)= 9.81 X 0.163 = 1.60 gal.
3Csg. Volume = 3x 1.60 = 4.80 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 3.20 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.60	1.60					0.00
Time (military)	15:49	15:52	15:56					10:30
pH (s.u.)	7.27	7.16	7.12					7.22
O.R.P. (mV)	173	189	205					198
Temperature (°C)	17.7	17.7	17.3					17.9
Specific Cond. (mS/cm)	0.586	0.536	0.554					0.609
Dissolved Oxygen (mg/L)	6.27	7.63	7.48					4.82
Turbidity (NTU)	426.0	>999	>999					36.8

Remarks Purged on 10/18/10. Sample collected on 10/19/10.
Purged dry after 2 well volumes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop   Site ID# 07960

Quality Assurance:

pH Meter Horiba U22   Conductivity Meter Horiba U22
serial no. T908009   serial no. T908009
pH = 4.0   Standard
pH = 7.0   Standard
pH = 10.0   Standard

Chain of Custody

B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-16**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.17 ft.
Depth to GW(DGW) 30.79 ft.

Length of Water Column (LWC=TWD-DGW) 9.38 ft.

1Csg. Vol. (LWC*C)= 9.38 X 0.163 = 1.53 gal.
3Csg. Volume = 3x 1.53 = 4.59 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 4.58 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.53	1.53	1.53				0.00
Time (military)	14:45	14:50	14:54	14:59				11:45
pH (s.u.)	7.71	7.34	7.17	7.09				7.30
O.R.P. (mV)	218	224	230	235				213
Temperature (°C)	18.6	18.7	18.5	18.2				19.7
Specific Cond. (mS/cm)	1.04	1.05	1.07	1.06				1.03
Dissolved Oxygen (mg/L)	7.24	6.74	7.38	5.88				6.23
Turbidity (NTU)	727.0	>999	>999	>999				13.3

Remarks Purged on 10/18/10. Sample collected on 10/19/10.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **MW-17**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 35.01 ft.
Depth to GW(DGW) 23.74 ft.

Length of Water Column (LWC=TWD-DGW) 11.27 ft.

1Csg. Vol. (LWC*C)= 11.27 X 0.163 = 1.84 gal.
3Csg. Volume = 3x 1.84 = 5.51 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 5.51 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.84	1.84	1.84				0.00
Time (military)	13:00	13:08	13:12	13:16				11:00
pH (s.u.)	11.07	8.89	8.34	8.13				10.21
O.R.P. (mV)	8	165	200	215				32
Temperature (°C)	20.4	20.6	20.5	20.0				20.5
Specific Cond. (mS/cm)	0.605	0.280	0.236	0.219				0.491
Dissolved Oxygen (mg/L)	6.38	7.52	7.43	7.26				4.54
Turbidity (NTU)	432.0	>999	>999	>999				55.5

Remarks Purged on 10/18/10. Sample collected on 10/19/10.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy): 10/19/10
Field Personnel: B. McNeill and A. Williamson
General Weather Conditions: Cloudy
Ambient Air Temperature: 80 F

Facility Name: 378 Truck Stop Site ID#: 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well #: **MW-18**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 35.72 ft.
Depth to GW(DGW) 22.02 ft.

Length of Water Column (LWC=TWD-DGW) 13.70 ft.

1Csg. Vol. (LWC*C)= 13.70 X 0.163 = 2.23 gal.
3Csg. Volume = 3x 2.23 = 6.70 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 6.70 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.23	2.23	2.23				0.00
Time (military)	15:10	15:15	15:20	15:25				11:10
pH (s.u.)	7.38	7.22	7.20	7.15				8.66
O.R.P. (mV)	239	244	242	244				142
Temperature (°C)	20.0	19.5	19.1	19.3				20.3
Specific Cond. (mS/cm)	0.397	0.312	0.324	0.327				0.403
Dissolved Oxygen (mg/L)	8.73	7.88	8.15	7.33				5.49
Turbidity (NTU)	134.0	>999	>999	>999				13.6

Remarks: Purged on 10/18/10. Sample collected on 10/19/10.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-19**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 38.62 ft.
Depth to GW(DGW) 27.62 ft.

Length of Water Column (LWC=TWD-DGW) 11.00 ft.

1Csg. Vol. (LWC*C)= 11.00 X 0.163 = 1.79 gal.
3Csg. Volume = 3x 1.79 = 5.38 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 5.38 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.79	1.79	1.79				0.00
Time (military)	14:00	14:07	14:11	14:16				11:30
pH (s.u.)	10.68	8.92	8.31	7.81				9.64
O.R.P. (mV)	31	207	255	265				117
Temperature (°C)	19.9	20.0	19.8	19.4				20.1
Specific Cond. (mS/cm)	0.668	0.202	0.176	0.166				0.371
Dissolved Oxygen (mg/L)	5.93	7.51	7.27	6.78				6.07
Turbidity (NTU)	236.0	>999	>999	>999				162.0

Remarks Purged on 10/18/10. Sample collected on 10/19/10.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/18/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 ______ Standard ______
pH = 7.0 ______ Standard ______
pH = 10.0 ______ Standard ______

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **TW-1**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 63.33 ft.
Depth to GW(DGW) 28.44 ft.

Length of Water Column (LWC=TWD-DGW) 34.89 ft.

1Csg. Vol. (LWC*C)= 34.89 X 0.163 = 5.69 gal.
3Csg. Volume = 3x 5.69 = 17.06 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 17.06 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	5.69	5.69	5.69				0.00
Time (military)	12:11	12:21	12:34	12:44				17:15
pH (s.u.)	11.70	11.17	9.51	8.49				7.06
O.R.P. (mV)	113	89	123	-45				-83
Temperature (°C)	21.0	19.8	19.4	19.3				19.7
Specific Cond. (mS/cm)	1.63	1.05	0.620	0.577				0.569
Dissolved Oxygen (mg/L)	3.06	2.77	2.98	2.96				3.52
Turbidity (NTU)	76.0	902.0	661.0	668.0				74.8

Remarks

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **TW-2**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 80.29 ft.
Depth to GW(DGW) 29.57 ft.

Length of Water Column (LWC=TWD-DGW) 50.72 ft.

1Csg. Vol. (LWC*C)= 50.72 X 0.163 = 8.27 gal.
3Csg. Volume = 3x 8.27 = 24.80 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 11.77 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	8.27	3.50					0.00
Time (military)	12:05	12:26						10:45
pH (s.u.)	13.00	13.04						12.98
O.R.P. (mV)	-67	-67						-38
Temperature (°C)	23.1	21.4						20.6
Specific Cond. (mS/cm)	15.0	15.4						12.6
Dissolved Oxygen (mg/L)	8.88	8.95						7.23
Turbidity (NTU)	28.9	103.0						53.4

Remarks Purged on 10/18/10. Sample collected on 10/19/10.
Purged dry after 1 well volume + 3.5 gallons.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **TW-3**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 80.69 ft.
Depth to GW(DGW) 25.39 ft.

Length of Water Column (LWC=TWD-DGW) 55.30 ft.

1Csg. Vol. (LWC*C)= 55.30 X 0.163 = 9.01 gal.
3Csg. Volume = 3x 9.01 = 27.04 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 18.02 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	9.01	9.01					0.00
Time (military)	13:08	13:25	13:42					9:15
pH (s.u.)	8.62	8.70	8.11					7.37
O.R.P. (mV)	-105	-40	25					50
Temperature (°C)	19.0	18.3	18.3					17.1
Specific Cond. (mS/cm)	0.519	0.554	0.560					0.577
Dissolved Oxygen (mg/L)	1.74	2.76	2.89					2.88
Turbidity (NTU)	30.0	175.0	867.0					26.6

Remarks Purged on 10/18/10. Sample collected on 10/19/10.
Purged dry after 2 well volumes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20
Relinquished by	Date/Time	Received by	Date/Time

Well # **TW-4**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 68.55 ft.
Depth to GW(DGW) 43.13 ft.

Length of Water Column (LWC=TWD-DGW) 25.42 ft.

1Csg. Vol. (LWC*C)= 25.42 X 0.163 = 4.14 gal.
3Csg. Volume = 3x 4.14 = 12.43 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 6.21 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	4.14	2.07					0.00
Time (military)	14:02	14:12						9:35
pH (s.u.)	13.04	13.18						13.14
O.R.P. (mV)	-94	-117						-29
Temperature (°C)	18.0	18.0						17.4
Specific Cond. (mS/cm)	26.3	21.1						15.0
Dissolved Oxygen (mg/L)	7.36	7.22						7.69
Turbidity (NTU)	473.0	890.0						11.6

Remarks Purged on 10/18/10. Sample collected on 10/19/10.
Purged dry after 1.5 well volumes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **TW-5**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 58.44 ft.
Depth to GW(DGW) 29.69 ft.

Length of Water Column (LWC=TWD-DGW) 28.75 ft.

1Csg. Vol. (LWC*C)= 28.75 X 0.163 = 4.69 gal.
3Csg. Volume = 3x 4.69 = 14.06 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 7.04 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	4.69	2.35					0.00
Time (military)	14:53	15:01						10:10
pH (s.u.)	11.38	10.82						8.22
O.R.P. (mV)	22	-13						144
Temperature (°C)	20.0	19.4						18.3
Specific Cond. (mS/cm)	0.881	0.596						0.478
Dissolved Oxygen (mg/L)	8.35	7.49						7.54
Turbidity (NTU)	8.9	794.0						13.8

Remarks Purged on 10/18/10. Sample collected on 10/19/10.
Purged dry after 1.5 well volumes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy): 10/19/10
Field Personnel: B. McNeill and A. Williamson
General Weather Conditions: Cloudy
Ambient Air Temperature: 80 F

Facility Name: 378 Truck Stop   Site ID#: 07960

Quality Assurance:

pH Meter: Horiba U22   Conductivity Meter: Horiba U22
serial no.: T908009   serial no.: T908009
pH = 4.0: ______   Standard: ______
pH = 7.0: ______   Standard: ______
pH = 10.0: ______   Standard: ______

Chain of Custody

B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20
Relinquished by	Date/Time	Received by	Date/Time

Well #: **TW-6**

Well Diameter (D): 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD): 58.60 ft.
Depth to GW(DGW): 31.22 ft.

Length of Water Column (LWC=TWD-DGW): 27.38 ft.

1Csg. Vol. (LWC*C)= 27:38 X 0.163 = 4.46 gal.
3Csg. Volume = 3x 4.46 = 13.39 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling: 6.46 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	4.46	2.00					0.00
Time (military)	14:25	14:34						11:40
pH (s.u.)	9.22	9.40						8.25
O.R.P. (mV)	161	151						183
Temperature (°C)	20.0	18.7						19.6
Specific Cond. (mS/cm)	0.614	0.607						0.640
Dissolved Oxygen (mg/L)	5.43	5.73						4.87
Turbidity (NTU)	144.0	>999						53.2

Remarks: Purged on 10/18/10. Sample collected on 10/19/10.
Purged dry after 1 well volume + 2 gallons.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and Aaron Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop   Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **TW-7**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 58.96 ft.
Depth to GW(DGW) 50.90 ft.

Length of Water Column (LWC=TWD-DGW) 8.06 ft.

1Csg. Vol. (LWC*C)= 8.06 X 0.163 = 1.31 gal.
3Csg. Volume = 3x 1.31 = 3.94 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 2.62 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.31	1.31					0.00
Time (military)	12:50	12:55	12:59					10:55
pH (s.u.)	13.16	13.20	13.20					13.30
O.R.P. (mV)	-72	-75	-75					-73
Temperature (°C)	20.7	19.9	20.2					19.6
Specific Cond. (mS/cm)	18.8	18.8	18.4					19.0
Dissolved Oxygen (mg/L)	7.94	7.90	7.67					7.86
Turbidity (NTU)	5.7	425.0	170.0					19.6

Remarks Purged on 10/18/10. Sample collected on 10/19/10.
Purged dry after 2 well volumes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **TW-8**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 58.60 ft.
Depth to GW(DGW) 28.18 ft.

Length of Water Column (LWC=TWD-DGW) 30.42 ft.

1Csg. Vol. (LWC*C)= 30.42 X 0.163 = 4.96 gal.
3Csg. Volume = 3x 4.96 = 14.88 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 8.96 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	4.96	4.00					0.00
Time (military)	13:40	13:50						11:25
pH (s.u.)	12.89	13.01						12.66
O.R.P. (mV)	-66	-73						-17
Temperature (°C)	23.8	21.7						20.6
Specific Cond. (mS/cm)	10.5	13.1						6.23
Dissolved Oxygen (mg/L)	6.09	8.33						7.74
Turbidity (NTU)	29.6	19.5						3.6

Remarks Purged on 10/18/10. Sample collected on 10/19/10.
Purged dry after 1 well volume + 4 gallons.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **WSW-1**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) -- ft.

1Csg. Vol. (LWC*C)= -- X 0.163 = -- gal.
3Csg. Volume = 3x -- = -- gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								14:05
pH (s.u.)								7.55
O.R.P. (mV)								29
Temperature (°C)								18.9
Specific Cond. (mS/cm)								0.586
Dissolved Oxygen (mg/L)								6.30
Turbidity (NTU)								1.1

Remarks Tap allowed to run for 10 minutes prior to sampling.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **WSW-2**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) -- ft.

1Csg. Vol. (LWC*C)= -- X 0.163 = -- gal.
3Csg. Volume = 3x -- = -- gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								13:55
pH (s.u.)								7.43
O.R.P. (mV)								197
Temperature (°C)								18.7
Specific Cond. (mS/cm)								0.485
Dissolved Oxygen (mg/L)								4.15
Turbidity (NTU)								3.7

Remarks Tap allowed to run for 10 minutes prior to sampling.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **WSW-3**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) -- ft.

1Csg. Vol. (LWC*C)= -- X 0.163 = -- gal.
3Csg. Volume = 3x -- = -- gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								13:00
pH (s.u.)								6.98
O.R.P. (mV)								195
Temperature (°C)								21.3
Specific Cond. (mS/cm)								0.437
Dissolved Oxygen (mg/L)								1.86
Turbidity (NTU)								4.8

Remarks Tap allowed to run for 10 minutes prior to sampling.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop
Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **WSW-4**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) -- ft.

1Csg. Vol. (LWC*C)= -- X 0.163 = -- gal.
3Csg. Volume = 3x -- = -- gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								12:45
pH (s.u.)								7.19
O.R.P. (mV)								216
Temperature (°C)								18.7
Specific Cond. (mS/cm)								0.869
Dissolved Oxygen (mg/L)								5.23
Turbidity (NTU)								10.2

Remarks Tap allowed to run for 10 minutes prior to sampling.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **WSW-5**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) -- ft.

1Csg. Vol. (LWC*C)= -- X 0.163 = -- gal.
3Csg. Volume = 3x -- = -- gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								13:45
pH (s.u.)								7.42
O.R.P. (mV)								37
Temperature (°C)								18.4
Specific Cond. (mS/cm)								0.346
Dissolved Oxygen (mg/L)								4.36
Turbidity (NTU)								0.0

Remarks Tap allowed to run for 10 minutes prior to sampling.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **WSW-6**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) -- ft.

1Csg. Vol. (LWC*C)= -- X 0.163 = -- gal.
3Csg. Volume = 3x -- = -- gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								13:30
pH (s.u.)								7.39
O.R.P. (mV)								200
Temperature (°C)								19.7
Specific Cond. (mS/cm)								0.369
Dissolved Oxygen (mg/L)								2.87
Turbidity (NTU)								10.4

Remarks Tap allowed to run for 10 minutes prior to sampling.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **WSW-7**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) -- ft.

1Csg. Vol. (LWC*C)= -- X 0.163 = -- gal.
3Csg. Volume = 3x -- = -- gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								14:15
pH (s.u.)								7.74
O.R.P. (mV)								94
Temperature (°C)								20.5
Specific Cond. (mS/cm)								0.347
Dissolved Oxygen (mg/L)								3.45
Turbidity (NTU)								71.0

Remarks Tap allowed to run for 10 minutes prior to sampling.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **WSW-8**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) -- ft.

1Csg. Vol. (LWC*C)= -- X 0.163 = -- gal.
3Csg. Volume = 3x -- = -- gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								14:30
pH (s.u.)								7.57
O.R.P. (mV)								37
Temperature (°C)								19.1
Specific Cond. (mS/cm)								0.541
Dissolved Oxygen (mg/L)								6.09
Turbidity (NTU)								0.0

Remarks Tap allowed to run for 10 minutes prior to sampling.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **WSW-9**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) -- ft.

1Csg. Vol. (LWC*C)= -- X 0.163 = -- gal.
3Csg. Volume = 3x -- = -- gals.(Std. Purge Vol)
Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								14:40
pH (s.u.)								7.35
O.R.P. (mV)								68
Temperature (°C)								19.5
Specific Cond. (mS/cm)								0.388
Dissolved Oxygen (mg/L)								3.11
Turbidity (NTU)								8.4

Remarks Tap allowed to run for 10 minutes prior to sampling.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop   Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **WSW-10**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) -- ft.

1Csg. Vol. (LWC*C)= -- X 0.163 = -- gal.
3Csg. Volume = 3x -- = -- gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								14:50
pH (s.u.)								7.20
O.R.P. (mV)								133
Temperature (°C)								18.8
Specific Cond. (mS/cm)								0:676
Dissolved Oxygen (mg/L)								6.72
Turbidity (NTU)								3.8

Remarks Tap allowed to run for 10 minutes prior to sampling.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **WSW-11**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) -- ft.

1Csg. Vol. (LWC*C)= -- X 0.163 = -- gal.
3Csg. Volume = 3x -- = -- gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								15:00
pH (s.u.)								7.51
O.R.P. (mV)								213
Temperature (°C)								19.4
Specific Cond. (mS/cm)								0.720
Dissolved Oxygen (mg/L)								3.64
Turbidity (NTU)								2.7

Remarks Tap allowed to run for 10 minutes prior to sampling.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20
Relinquished by	Date/Time	Received by	Date/Time

Well # **WSW-12**

Well Diameter (D) -- inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) -- ft.

1Csg. Vol. (LWC*C)= -- X 0.163 = -- gal.
3Csg. Volume = 3x -- = -- gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								15:05
pH (s.u.)								7.54
O.R.P. (mV)								203
Temperature (°C)								18.5
Specific Cond. (mS/cm)								0.606
Dissolved Oxygen (mg/L)								4.83
Turbidity (NTU)								28.4

Remarks Tap allowed to run for 10 minutes prior to sampling.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **WSW-13**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) -- ft.

1Csg. Vol. (LWC*C)= -- X 0.163 = -- gal.
3Csg. Volume = 3x -- = -- gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								15:20
pH (s.u.)								7.44
O.R.P. (mV)								216
Temperature (°C)								18.9
Specific Cond. (mS/cm)								0.728
Dissolved Oxygen (mg/L)								5.25
Turbidity (NTU)								5.6

Remarks Tap allowed to run for 10 minutes prior to sampling.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **WSW-14**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) -- ft.

1Csg. Vol. (LWC*C)= -- X 0.163 = -- gal.
3Csg. Volume = 3x -- = -- gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								15:30
pH (s.u.)								7.41
O.R.P. (mV)								188
Temperature (°C)								18.8
Specific Cond. (mS/cm)								0.737
Dissolved Oxygen (mg/L)								6.41
Turbidity (NTU)								5.0

Remarks Tap allowed to run for 10 minutes prior to sampling.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 10/19/10
Field Personnel B. McNeill and A. Williamson
General Weather Conditions Cloudy
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 | Conductivity Meter Horiba U22
serial no. T908009 | serial no. T908009
pH = 4.0 | Standard
pH = 7.0 | Standard
pH = 10.0 | Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	10/19/10 19:45	Pace	10/20/10 12:20

Well # **WSW-15**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) -- ft.

1Csg. Vol. (LWC*C)= -- X 0.163 = -- gal.
3Csg. Volume = 3x -- = -- gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								15:40
pH (s.u.)								7.54
O.R.P. (mV)								182
Temperature (°C)								19.5
Specific Cond. (mS/cm)								0.946
Dissolved Oxygen (mg/L)								5.29
Turbidity (NTU)								0.1

Remarks Tap allowed to run for 10 minutes prior to sampling.

GAUGE REPORT

Environmental Compliance Services, Inc.
13504 South Point Blvd., Unit F
Charlotte, North Carolina 28273

Project Name 378 Truck Stop
Project No. 14-214210
Measured By B. McNeill

Location Edgefield, SC
Date 12/06/10
Weather Sunny, 40

Well ID	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Product Recovered (gallons)	Well Depth (feet)	Volume Purged (gallons)
MW-20	-----	41.77	-----	-----	45.04	0.53
MW-21	-----	32.66	-----	-----	40.16	1.83
MW-22	-----	34.95	-----	-----	40.10	0.84
MW-23	-----	29.26	-----	-----	37.24	2.60
MW-24	-----	32.25	-----	-----	40.03	1.91
MW-25	-----	32.00	-----	-----	39.99	1.95
MW-26	-----	29.08	-----	-----	38.74	3.14
MW-27	-----	28.48	-----	-----	35.10	1.62
MW-28	-----	33.39	-----	-----	40.04	1.62
TW-9	-----	28.96	-----	-----	80.12	25.02
TW-10	-----	-----	-----	-----	-----	0.00

Remarks: TW-10 did not produce sufficient water and was subsequently abandoned following groundwater sample collection. MW-20 installed with a 3 ft stickup riser.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 12/06/10
Field Personnel B. McNeill
General Weather Conditions Sunny
Ambient Air Temperature 40 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 ______ Standard ______
pH = 7.0 ______ Standard ______
pH = 10.0 ______ Standard ______

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	12/6/10 18:30	Pace	12/7/10 12:27

Well # **MW-20**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 45.04 ft.
Depth to GW(DGW) 41.77 ft.

Length of Water Column (LWC=TWD-DGW) 3.27 ft.

1Csg. Vol. (LWC*C)= 3.27 X 0.163 = 0.53 gal.
3Csg. Volume = 3x 0.53 = 1.60 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.53 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	0.53						0.00
Time (military)	11:12	11:15						15:20
pH (s.u.)	7.09	7.02						6.74
O.R.P. (mV)	193	198						194
Temperature (°C)	16.0	16.2						15.9
Specific Cond. (mS/cm)	0.580	0.556						0.499
Dissolved Oxygen (mg/L)	7.59	7.73						8.40
Turbidity (NTU)	75.8	>999						>999

Remarks Purged dry after 1 well volume.
Well installed with 3 ft stickup riser.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 12/06/10
Field Personnel B. McNeill
General Weather Conditions Sunny
Ambient Air Temperature 40 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22
serial no. T908009
pH = 4.0
pH = 7.0
pH = 10.0

Conductivity Meter Horiba U22
serial no. T908009
Standard
Standard
Standard

Chain of Custody

B. McNeill	12/6/10 18:30	Pace	12/7/10 12:27
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-21**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.16 ft.
Depth to GW(DGW) 32.66 ft.

Length of Water Column (LWC=TWD-DGW) 7.50 ft.

1Csg. Vol. (LWC*C)= 7.50 X 0.163 = 1.22 gal.
3Csg. Volume = 3x 1.22 = 3.67 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 1.83 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.22	0.61					0.00
Time (military)	11:21	11:25						15:05
pH (s.u.)	6.98	7.06						7.00
O.R.P. (mV)	193	181						179
Temperature (°C)	17.8	18.3						17.5
Specific Cond. (mS/cm)	0.714	0.686						0.640
Dissolved Oxygen (mg/L)	8.32	8.18						8.56
Turbidity (NTU)	200.0	>999						906.0

Remarks Purged dry after 1.5 well volumes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 12/06/10
Field Personnel B. McNeill
General Weather Conditions Sunny
Ambient Air Temperature 40 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	12/6/10 18:30	Pace	12/7/10 12:27

Well # **MW-22**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.10 ft.
Depth to GW(DGW) 34.95 ft.

Length of Water Column (LWC=TWD-DGW) 5.15 ft.

1Csg. Vol. (LWC*C)= 5.15 X 0.163 = 0.84 gal.
3Csg. Volume = 3x 0.84 = 2.52 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.84 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	0.84						0.00
Time (military)	11:45	11:50						14:50
pH (s.u.)	6.88	6.90						6.53
O.R.P. (mV)	195	192						206
Temperature (°C)	15.8	16.3						16.2
Specific Cond. (mS/cm)	1.25	1.21						1.17
Dissolved Oxygen (mg/L)	7.93	7.85						8.05
Turbidity (NTU)	115	>999						154

Remarks Purged dry after 1 well volume.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 12/06/10
Field Personnel B. McNeill
General Weather Conditions Sunny
Ambient Air Temperature 40 F

Facility Name 378 Truck Stop   Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	12/6/10 18:30	Pace	12/7/10 12:27

Well # **MW-23**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 37.24 ft.
Depth to GW(DGW) 29.26 ft.

Length of Water Column (LWC=TWD-DGW) 7.98 ft.

1Csg. Vol. (LWC*C)= 7.98 X 0.163 = 1.30 gal.
3Csg. Volume = 3x 1.30 = 3.90 gals.(Std. Purge Vol)
Total Vol. of Water Purged Before Sampling 2.60 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.30	1.30					0.00
Time (military)	11:55	11:59	12:02					14:35
pH (s.u.)	7.11	6.93	6.61					7.10
O.R.P. (mV)	169	181	197					184
Temperature (°C)	17.4	17.6	17.2					16.7
Specific Cond. (mS/cm)	0.325	0.245	0.269					0.253
Dissolved Oxygen (mg/L)	7.19	9.01	8.41					8.08
Turbidity (NTU)	0.0	>999	>999					879

Remarks Purged dry after 2 well volumes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 12/06/10
Field Personnel B. McNeill
General Weather Conditions Sunny
Ambient Air Temperature 40 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	12/6/10 18:30	Pace	12/7/10 12:27

Well # **MW-24**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.03 ft.
Depth to GW(DGW) 32.25 ft.

Length of Water Column (LWC=TWD-DGW) 7.78 ft.

1Csg. Vol. (LWC*C)= 7.78 X 0.163 = 1.27 gal.
3Csg. Volume = 3x 1.27 = 3.80 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 1.91 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.27	0.64					0.00
Time (military)	12:43	12:48						14:20
pH (s.u.)	7.17	7.13						7.01
O.R.P. (mV)	197	197						181
Temperature (°C)	16.6	16.9						16.0
Specific Cond. (mS/cm)	0.887	0.896						0.905
Dissolved Oxygen (mg/L)	9.06	8.12						9.03
Turbidity (NTU)	451	>999						325

Remarks Purged dry after 1.5 well volumes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 12/06/10
Field Personnel B. McNeill
General Weather Conditions Sunny
Ambient Air Temperature 40 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	12/6/10 18:30	Pace	12/7/10 12:27

Well # **MW-25**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 39.99 ft.
Depth to GW(DGW) 32.00 ft.

Length of Water Column (LWC=TWD-DGW) 7.99 ft.

1Csg. Vol. (LWC*C)= 7.99 X 0.163 = 1.30 gal.
3Csg. Volume = 3x 1.30 = 3.91 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 1.95 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.30	0.65					0.00
Time (military)	12:30	12:33						14:30
pH (s.u.)	6.61	6.98						7.34
O.R.P. (mV)	215	198						169
Temperature (°C)	16.6	16.9						16.3
Specific Cond. (mS/cm)	0.409	0.431						0.430
Dissolved Oxygen (mg/L)	7.26	7.14						4.79
Turbidity (NTU)	304	>999						113

Remarks Purged dry after 1.5 well volumes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 12/06/10
Field Personnel B. McNeill
General Weather Conditions Sunny
Ambient Air Temperature 40 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	12/6/10 18:30	Pace	12/7/10 12:27

Well # **MW-26**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 38.74 ft.
Depth to GW(DGW) 29.08 ft.

Length of Water Column (LWC=TWD-DGW) 9.66 ft.

1Csg. Vol. (LWC*C)= 9.66 X 0.163 = 1.57 gal.
3Csg. Volume = 3x 1.57 = 4.72 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 3.14 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.57	1.57					0.00
Time (military)	12:57	13:01	13:04					14:05
pH (s.u.)	7.06	6.92	6.73					7.07
O.R.P. (mV)	181	190	197					167
Temperature (°C)	16.8	16.9	17.2					15.9
Specific Cond. (mS/cm)	0.867	0.766	0.770					0.754
Dissolved Oxygen (mg/L)	7.96	8.77	8.35					7.52
Turbidity (NTU)	605	>999	>999					303

Remarks Purged dry after 2 well volumes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy): 12/06/10
Field Personnel: B. McNeill
General Weather Conditions: Sunny
Ambient Air Temperature: 40 F

Facility Name: 378 Truck Stop   Site ID#: 07960

Quality Assurance:

pH Meter: Horiba U22   Conductivity Meter: Horiba U22
serial no.: T908009   serial no.: T908009
pH = 4.0 ______   Standard ______
pH = 7.0 ______   Standard ______
pH = 10.0 ______   Standard ______

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	12/6/10 18:30	Pace	12/7/10 12:27

Well #: **MW-27**

Well Diameter (D): 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD): 35.10 ft.
Depth to GW(DGW): 28.48 ft.

Length of Water Column (LWC=TWD-DGW): 6.62 ft.

1Csg. Vol. (LWC*C)= 6.62 X 0.163 = 1.08 gal.
3Csg. Volume = 3x 1.08 = 3.24 gals.(Std. Purge Vol)
Total Vol. of Water Purged Before Sampling: 1.62 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.08	0.54					0.00
Time (military)	11:33	11:35						15:00
pH (s.u.)	6.97	7.02						6.92
O.R.P. (mV)	191	190						184
Temperature (°C)	17.7	17.8						16.5
Specific Cond. (mS/cm)	0.465	0.420						0.444
Dissolved Oxygen (mg/L)	8.71	8.71						7.96
Turbidity (NTU)	382	>999						221

Remarks: Purged dry after 1.5 well volumes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 12/06/10
Field Personnel B. McNeill
General Weather Conditions Sunny
Ambient Air Temperature 40 F

Facility Name 378 Truck Stop   Site ID# 07960

Quality Assurance:

pH Meter Horiba U22   Conductivity Meter Horiba U22
serial no. T908009   serial no. T908009
pH = 4.0 ______   Standard ______
pH = 7.0 ______   Standard ______
pH = 10.0 ______   Standard ______

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	12/6/10 18:30	Pace	12/7/10 12:27

Well # **MW-28**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.04 ft.
Depth to GW(DGW) 33.39 ft.

Length of Water Column (LWC=TWD-DGW) 6.65 ft.

1Csg. Vol. (LWC*C)= 6.65 X 0.163 = 1.08 gal.
3Csg. Volume = 3x 1.08 = 3.25 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 1.62 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	1.08	0.54					0.00
Time (military)	11:00	11:05						15:30
pH (s.u.)	7.32	7.14						6.68
O.R.P. (mV)	189	192						197
Temperature (°C)	15.7	16.8						16.4
Specific Cond. (mS/cm)	0.847	0.605						0.418
Dissolved Oxygen (mg/L)	7.65	7.93						7.98
Turbidity (NTU)	25.8	>999						764

Remarks Purged dry after 1.5 well volumes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 12/06/10
Field Personnel B. McNeill
General Weather Conditions Sunny
Ambient Air Temperature 40 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 ____ Standard ____
pH = 7.0 ____ Standard ____
pH = 10.0 ____ Standard ____

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	12/6/10 18:30	Pace	12/7/10 12:27

Well # **TW-9**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 80.12 ft.
Depth to GW(DGW) 28.96 ft.

Length of Water Column (LWC=TWD-DGW) 51.16 ft.

1Csg. Vol. (LWC*C)= 51.16 X 0.163 = 8.34 gal.
3Csg. Volume = 3x 8.34 = 25.02 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 25.02 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	8.34	8.34	8.34				0.00
Time (military)	13:10	13:23	13:37	13:50				13:55
pH (s.u.)	6.86	7.58	7.35	7.35				7.32
O.R.P. (mV)	190	169	163	160				151
Temperature (°C)	16.3	16.6	16.4	16.7				16.1
Specific Cond. (mS/cm)	0.872	0.867	0.875	0.868				0.869
Dissolved Oxygen (mg/L)	4.03	2.69	3.18	2.08				3.51
Turbidity (NTU)	38.4	228	463	72.2				134

Remarks

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 12/02/10
Field Personnel B. McNeill
General Weather Conditions Sunny
Ambient Air Temperature 50 F

Facility Name 378 Truck Stop   Site ID# 07960

Quality Assurance:

pH Meter ____   Conductivity Meter ____
serial no. ____   serial no. ____
pH = 4.0 ____   Standard ____
pH = 7.0 ____   Standard ____
pH = 10.0 ____   Standard ____

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
B. McNeill	12/6/10 18:30	Pace	12/7/10 12:27

Well # **TW-10**

Well Diameter (D) ---- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) ----- ft.
Depth to GW(DGW) ----- ft.

Length of Water Column (LWC=TWD-DGW) ---- ft.

1Csg. Vol. (LWC*C)= ---- X 0.163 = ---- gal.
3Csg. Volume = 3x ---- = ---- gals.(Std. Purge Vol)
Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
O.R.P. (mV)								
Temperature (°C)								
Specific Cond. (mS/cm)								
Dissolved Oxygen (mg/L)								
Turbidity (NTU)								

Remarks Sample collected with sterile polyethylene bailer from 80 ft deep open boring.
Insufficient volume of water for water quality readings. Boring abandoned following sample collection due to insufficent water for well completion.

APPENDIX E

Laboratory Analytical Reports: Groundwater Samples 10/18/10 & 10/19/10, 12/6/10, and 12/8/10

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November 02, 2010

Ms. Christine Dupuis
Environmental Compliance Servi
13504 South Point Blvd
Charlotte, NC 28273

RE: Project: 378 TRUCK STOP
Pace Project No.: 9280235

Dear Ms. Dupuis:

Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Virginia Certification #: 00072

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SAMPLE SUMMARY

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9280235001	**MW-2**	Water	10/19/10 12:10	10/20/10 14:20
9280235002	**MW-3**	Water	10/18/10 16:45	10/20/10 14:20
9280235003	**MW-4**	Water	10/18/10 16:55	10/20/10 14:20
9280235004	**MW-5**	Water	10/18/10 17:05	10/20/10 14:20
9280235005	**MW-6**	Water	10/19/10 12:25	10/20/10 14:20
9280235006	**MW-7**	Water	10/19/10 12:15	10/20/10 14:20
9280235007	**MW-8**	Water	10/19/10 12:00	10/20/10 14:20
9280235008	**MW-9**	Water	10/19/10 09:25	10/20/10 14:20
9280235009	**MW-10**	Water	10/19/10 09:40	10/20/10 14:20
9280235010	**MW-11**	Water	10/19/10 09:50	10/20/10 14:20
9280235011	**MW-12**	Water	10/19/10 10:15	10/20/10 14:20
9280235012	**MW-13**	Water	10/19/10 10:25	10/20/10 14:20
9280235013	**MW-14**	Water	10/19/10 09:55	10/20/10 14:20
9280235014	**MW-15**	Water	10/19/10 10:30	10/20/10 14:20
9280235015	**MW-16**	Water	10/19/10 11:45	10/20/10 14:20
9280235016	**MW-17**	Water	10/19/10 11:00	10/20/10 14:20
9280235017	**MW-18**	Water	10/19/10 11:10	10/20/10 14:20
9280235018	**MW-19**	Water	10/19/10 11:30	10/20/10 14:20
9280235019	**TW-1**	Water	10/18/10 17:15	10/20/10 14:20
9280235020	**TW-2**	Water	10/19/10 10:45	10/20/10 14:20
9280235021	**TW-3**	Water	10/19/10 09:15	10/20/10 14:20
9280235022	**TW-4**	Water	10/19/10 09:35	10/20/10 14:20
9280235023	**TW-5**	Water	10/19/10 10:10	10/20/10 14:20
9280235024	**TW-6**	Water	10/19/10 11:40	10/20/10 14:20
9280235025	**TW-7**	Water	10/19/10 10:55	10/20/10 14:20
9280235026	**TW-8**	Water	10/19/10 11:25	10/20/10 14:20
9280235027	**MW-6 LEAD**	Water	10/18/10 16:35	10/20/10 14:20
9280235028	**MW-7 LEAD**	Water	10/18/10 16:15	10/20/10 14:20
9280235029	**MW-8 LEAD**	Water	10/18/10 15:35	10/20/10 14:20
9280235030	**MW-9 LEAD**	Water	10/18/10 13:50	10/20/10 14:20
9280235031	**MW-10 LEAD**	Water	10/18/10 14:25	10/20/10 14:20
9280235032	**MW-11 LEAD**	Water	10/18/10 16:05	10/20/10 14:20
9280235033	**MW-12 LEAD**	Water	10/18/10 15:10	10/20/10 14:20
9280235034	**MW-13 LEAD**	Water	10/18/10 15:30	10/20/10 14:20
9280235035	**MW-14 LEAD**	Water	10/18/10 16:10	10/20/10 14:20
9280235036	**MW-15 LEAD**	Water	10/18/10 15:45	10/20/10 14:20
9280235037	**MW-16 LEAD**	Water	10/18/10 14:45	10/20/10 14:20

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SAMPLE SUMMARY

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9280235038	MW-17 LEAD	Water	10/18/10 13:00	10/20/10 14:20
9280235039	MW-18 LEAD	Water	10/18/10 15:10	10/20/10 14:20
9280235040	MW-19 LEAD	Water	10/18/10 14:00	10/20/10 14:20
9280235041	TW-1 LEAD	Water	10/18/10 12:10	10/20/10 14:20
9280235042	TW-2 LEAD	Water	10/18/10 12:05	10/20/10 14:20
9280235043	TW-3 LEAD	Water	10/18/10 13:05	10/20/10 14:20
9280235044	TW-4 LEAD	Water	10/18/10 14:00	10/20/10 14:20
9280235045	TW-5 LEAD	Water	10/18/10 14:50	10/20/10 14:20
9280235046	TW-6 LEAD	Water	10/18/10 14:25	10/20/10 14:20
9280235047	TW-7 LEAD	Water	10/18/10 12:50	10/20/10 14:20
9280235048	TW-8 LEAD	Water	10/18/10 13:40	10/20/10 14:20
9280235049	WSW-1	Water	10/19/10 14:05	10/20/10 14:20
9280235050	WSW-2	Water	10/19/10 13:55	10/20/10 14:20
9280235051	WSW-3	Water	10/19/10 13:00	10/20/10 14:20
9280235052	WSW-4	Water	10/19/10 12:45	10/20/10 14:20
9280235053	WSW-5	Water	10/19/10 13:45	10/20/10 14:20
9280235054	WSW-6	Water	10/19/10 13:30	10/20/10 14:20
9280235055	WSW-7	Water	10/19/10 14:15	10/20/10 14:20
9280235056	WSW-8	Water	10/19/10 14:30	10/20/10 14:20
9280235057	WSW-9	Water	10/19/10 14:40	10/20/10 14:20
9280235058	WSW-10	Water	10/19/10 14:50	10/20/10 14:20
9280235059	WSW-11	Water	10/19/10 15:00	10/20/10 14:20
9280235060	WSW-12	Water	10/19/10 15:05	10/20/10 14:20
9280235061	WSW-13	Water	10/19/10 15:20	10/20/10 14:20
9280235062	WSW-14	Water	10/19/10 15:30	10/20/10 14:20
9280235063	WSW-15	Water	10/19/10 15:40	10/20/10 14:20

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SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9280235001	**MW-2**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9280235002	**MW-3**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9280235003	**MW-4**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9280235004	**MW-5**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9280235005	**MW-6**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9280235006	**MW-7**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9280235007	**MW-8**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9280235008	**MW-9**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9280235009	**MW-10**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9280235010	**MW-11**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9280235011	**MW-12**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9280235012	**MW-13**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9280235013	**MW-14**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9280235014	**MW-15**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9280235015	**MW-16**	EPA 8011	RES	2	PASI-C
		EPA 8260	BLC, KJM	20	PASI-C
9280235016	**MW-17**	EPA 8011	RES	2	PASI-C
		EPA 8260	BLC	20	PASI-C
9280235017	**MW-18**	EPA 8011	RES	2	PASI-C
		EPA 8260	BLC	20	PASI-C
9280235018	**MW-19**	EPA 8011	RES	2	PASI-C
		EPA 8260	BLC	20	PASI-C
9280235019	**TW-1**	EPA 8011	RES	2	PASI-C

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SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	BLC	20	PASI-C
9280235020	**TW-2**	EPA 8011	RES	2	PASI-C
		EPA 8260	BLC	20	PASI-C
9280235021	**TW-3**	EPA 8011	RES	2	PASI-C
		EPA 8260	BLC	20	PASI-C
9280235022	**TW-4**	EPA 8011	RES	2	PASI-C
		EPA 8260	MCK	20	PASI-C
9280235023	**TW-5**	EPA 8011	RES	2	PASI-C
		EPA 8260	MCK	20	PASI-C
9280235024	**TW-6**	EPA 8011	RES	2	PASI-C
		EPA 8260	MCK	20	PASI-C
9280235025	**TW-7**	EPA 8011	RES	2	PASI-C
		EPA 8260	MCK	20	PASI-C
9280235026	**TW-8**	EPA 8011	RES	2	PASI-C
		EPA 8260	MCK	20	PASI-C
9280235027	**MW-6 LEAD**	EPA 6010	SHB	1	PASI-A
9280235028	**MW-7 LEAD**	EPA 6010	SHB	1	PASI-A
9280235029	**MW-8 LEAD**	EPA 6010	SHB	1	PASI-A
9280235030	**MW-9 LEAD**	EPA 6010	SHB	1	PASI-A
9280235031	**MW-10 LEAD**	EPA 6010	SHB	1	PASI-A
9280235032	**MW-11 LEAD**	EPA 6010	SHB	1	PASI-A
9280235033	**MW-12 LEAD**	EPA 6010	SHB	1	PASI-A
9280235034	**MW-13 LEAD**	EPA 6010	SHB	1	PASI-A
9280235035	**MW-14 LEAD**	EPA 6010	SHB	1	PASI-A
9280235036	**MW-15 LEAD**	EPA 6010	SHB	1	PASI-A
9280235037	**MW-16 LEAD**	EPA 6010	SHB	1	PASI-A
9280235038	**MW-17 LEAD**	EPA 6010	SHB	1	PASI-A
9280235039	**MW-18 LEAD**	EPA 6010	SHB	1	PASI-A
9280235040	**MW-19 LEAD**	EPA 6010	SHB	1	PASI-A
9280235041	**TW-1 LEAD**	EPA 6010	SHB	1	PASI-A
9280235042	**TW-2 LEAD**	EPA 6010	SHB	1	PASI-A
9280235043	**TW-3 LEAD**	EPA 6010	SHB	1	PASI-A
9280235044	**TW-4 LEAD**	EPA 6010	SHB	1	PASI-A
9280235045	**TW-5 LEAD**	EPA 6010	SHB	1	PASI-A
9280235046	**TW-6 LEAD**	EPA 6010	SHB	1	PASI-A
9280235047	**TW-7 LEAD**	EPA 6010	SHB	1	PASI-A
9280235048	**TW-8 LEAD**	EPA 6010	SHB	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9280235049	**WSW-1**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9280235050	**WSW-2**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9280235051	**WSW-3**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9280235052	**WSW-4**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9280235053	**WSW-5**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9280235054	**WSW-6**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9280235055	**WSW-7**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9280235056	**WSW-8**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9280235057	**WSW-9**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9280235058	**WSW-10**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9280235059	**WSW-11**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9280235060	**WSW-12**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9280235061	**WSW-13**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9280235062	**WSW-14**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C
9280235063	**WSW-15**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	12	PASI-C

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: MW-2 | **Lab ID: 9280235001** | Collected: 10/19/10 12:10 | Received: 10/20/10 14:20 | Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:12	10/21/10 23:05	106-93-4	
1-Chloro-2-bromopropane (S)	83	%	60-140		1	10/21/10 14:12	10/21/10 23:05	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		10/25/10 15:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/25/10 15:58	994-05-8	
Benzene	**1.7J**	ug/L	5.0	1.2	1		10/25/10 15:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/25/10 15:58	624-95-3	
tert-Butyl Alcohol	**254**	ug/L	100	27.0	1		10/25/10 15:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/25/10 15:58	762-75-4	
1,2-Dichloroethane	**24.8**	ug/L	5.0	1.3	1		10/25/10 15:58	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/25/10 15:58	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/25/10 15:58	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/25/10 15:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/25/10 15:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/25/10 15:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/25/10 15:58	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/25/10 15:58	108-88-3	
m&p-Xylene	**2.9J**	ug/L	10.0	2.7	1		10/25/10 15:58	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/25/10 15:58	95-47-6	
Dibromofluoromethane (S)	95	%	70-130		1		10/25/10 15:58	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		10/25/10 15:58	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1		10/25/10 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		10/25/10 15:58	17060-07-0	

Sample: MW-3 | **Lab ID: 9280235002** | Collected: 10/18/10 16:45 | Received: 10/20/10 14:20 | Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.31**	ug/L	0.020	0.020	1	10/21/10 14:12	10/21/10 23:26	106-93-4	
1-Chloro-2-bromopropane (S)	119	%	60-140		1	10/21/10 14:12	10/21/10 23:26	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**12900**	ug/L	100	62.0	1		10/23/10 23:26	75-85-4	E
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/23/10 23:26	994-05-8	
Benzene	**6820**	ug/L	500	120	100		10/25/10 18:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/23/10 23:26	624-95-3	
tert-Butyl Alcohol	**773**	ug/L	100	27.0	1		10/23/10 23:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/23/10 23:26	762-75-4	
1,2-Dichloroethane	**561**	ug/L	5.0	1.3	1		10/23/10 23:26	107-06-2	E
Diisopropyl ether	**55.7**	ug/L	5.0	2.7	1		10/23/10 23:26	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/23/10 23:26	64-17-5	
Ethylbenzene	**981**	ug/L	500	110	100		10/25/10 18:45	100-41-4	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: MW-3 **Lab ID: 9280235002** Collected: 10/18/10 16:45 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/23/10 23:26	637-92-3	
Methyl-tert-butyl ether	**3.4J**	ug/L	5.0	2.0	1		10/23/10 23:26	1634-04-4	
Naphthalene	**449**	ug/L	5.0	2.9	1		10/23/10 23:26	91-20-3	E
Toluene	**343**	ug/L	5.0	1.8	1		10/23/10 23:26	108-88-3	E
m&p-Xylene	**4530**	ug/L	1000	270	100		10/25/10 18:45	179601-23-1	
o-Xylene	**1730**	ug/L	500	170	100		10/25/10 18:45	95-47-6	
Dibromofluoromethane (S)	95	%	70-130		1		10/23/10 23:26	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/23/10 23:26	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		10/23/10 23:26	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/23/10 23:26	17060-07-0	

Sample: MW-4 **Lab ID: 9280235003** Collected: 10/18/10 16:55 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:13	10/21/10 23:46	106-93-4	
1-Chloro-2-bromopropane (S)	72	%	60-140		1	10/21/10 14:13	10/21/10 23:46	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**199**	ug/L	100	62.0	1		10/23/10 20:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/23/10 20:24	994-05-8	
Benzene	**5.7**	ug/L	5.0	1.2	1		10/23/10 20:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/23/10 20:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/23/10 20:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/23/10 20:24	762-75-4	
1,2-Dichloroethane	**4.8J**	ug/L	5.0	1.3	1		10/23/10 20:24	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/23/10 20:24	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/23/10 20:24	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 20:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/23/10 20:24	637-92-3	
Methyl-tert-butyl ether	**3.0J**	ug/L	5.0	2.0	1		10/23/10 20:24	1634-04-4	
Naphthalene	**3.7J**	ug/L	5.0	2.9	1		10/23/10 20:24	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 20:24	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 20:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 20:24	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		1		10/23/10 20:24	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/23/10 20:24	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		10/23/10 20:24	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		10/23/10 20:24	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: MW-5 **Lab ID: 9280235004** Collected: 10/18/10 17:05 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:13	10/22/10 00:06	106-93-4	
1-Chloro-2-bromopropane (S)	85	%	60-140		1	10/21/10 14:13	10/22/10 00:06	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**168**	ug/L	100	62.0	1		10/23/10 19:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/23/10 19:29	994-05-8	
Benzene	**102**	ug/L	5.0	1.2	1		10/23/10 19:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/23/10 19:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/23/10 19:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/23/10 19:29	762-75-4	
1,2-Dichloroethane	**6.6**	ug/L	5.0	1.3	1		10/23/10 19:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/23/10 19:29	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/23/10 19:29	64-17-5	
Ethylbenzene	**4.1J**	ug/L	5.0	1.1	1		10/23/10 19:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/23/10 19:29	637-92-3	
Methyl-tert-butyl ether	**3.2J**	ug/L	5.0	2.0	1		10/23/10 19:29	1634-04-4	
Naphthalene	**43.5**	ug/L	5.0	2.9	1		10/23/10 19:29	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 19:29	108-88-3	
m&p-Xylene	**115**	ug/L	10.0	2.7	1		10/23/10 19:29	179601-23-1	
o-Xylene	**20.9**	ug/L	5.0	1.7	1		10/23/10 19:29	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		10/23/10 19:29	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/23/10 19:29	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		1		10/23/10 19:29	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		10/23/10 19:29	17060-07-0	

Sample: MW-6 **Lab ID: 9280235005** Collected: 10/19/10 12:25 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:13	10/22/10 00:26	106-93-4	
1-Chloro-2-bromopropane (S)	86	%	60-140		1	10/21/10 14:13	10/22/10 00:26	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**131**	ug/L	100	62.0	1		10/23/10 19:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/23/10 19:47	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 19:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/23/10 19:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/23/10 19:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/23/10 19:47	762-75-4	
1,2-Dichloroethane	**3.5J**	ug/L	5.0	1.3	1		10/23/10 19:47	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/23/10 19:47	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/23/10 19:47	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 19:47	100-41-4	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: MW-6 **Lab ID: 9280235005** Collected: 10/19/10 12:25 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/23/10 19:47	637-92-3	
Methyl-tert-butyl ether	**3.0J**	ug/L	5.0	2.0	1		10/23/10 19:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 19:47	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 19:47	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 19:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 19:47	95-47-6	
Dibromofluoromethane (S)	104	%	70-130		1		10/23/10 19:47	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/23/10 19:47	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		10/23/10 19:47	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		10/23/10 19:47	17060-07-0	

Sample: MW-7 **Lab ID: 9280235006** Collected: 10/19/10 12:15 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.40**	ug/L	0.020	0.020	1	10/21/10 14:15	10/22/10 00:12	106-93-4	
1-Chloro-2-bromopropane (S)	105	%	60-140		1	10/21/10 14:15	10/22/10 00:12	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		10/23/10 20:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/23/10 20:42	994-05-8	
Benzene	**12.9**	ug/L	5.0	1.2	1		10/23/10 20:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/23/10 20:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/23/10 20:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/23/10 20:42	762-75-4	
1,2-Dichloroethane	**4.6J**	ug/L	5.0	1.3	1		10/23/10 20:42	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/23/10 20:42	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/23/10 20:42	64-17-5	
Ethylbenzene	**3.2J**	ug/L	5.0	1.1	1		10/23/10 20:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/23/10 20:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 20:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 20:42	91-20-3	
Toluene	**4.6J**	ug/L	5.0	1.8	1		10/23/10 20:42	108-88-3	
m&p-Xylene	**9.2J**	ug/L	10.0	2.7	1		10/23/10 20:42	179601-23-1	
o-Xylene	**25.0**	ug/L	5.0	1.7	1		10/23/10 20:42	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		10/23/10 20:42	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/23/10 20:42	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		10/23/10 20:42	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		10/23/10 20:42	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: MW-8 **Lab ID: 9280235007** Collected: 10/19/10 12:00 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:15	10/22/10 01:06	106-93-4	
1-Chloro-2-bromopropane (S)	105	%	60-140		1	10/21/10 14:15	10/22/10 01:06	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		10/23/10 20:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/23/10 20:06	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 20:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/23/10 20:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/23/10 20:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/23/10 20:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 20:06	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/23/10 20:06	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/23/10 20:06	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 20:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/23/10 20:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 20:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 20:06	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 20:06	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 20:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 20:06	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		1		10/23/10 20:06	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/23/10 20:06	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		10/23/10 20:06	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		10/23/10 20:06	17060-07-0	

Sample: MW-9 **Lab ID: 9280235008** Collected: 10/19/10 09:25 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:16	10/22/10 01:24	106-93-4	
1-Chloro-2-bromopropane (S)	107	%	60-140		1	10/21/10 14:16	10/22/10 01:24	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		10/23/10 21:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/23/10 21:00	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 21:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/23/10 21:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/23/10 21:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/23/10 21:00	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 21:00	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/23/10 21:00	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/23/10 21:00	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 21:00	100-41-4	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: MW-9 **Lab ID: 9280235008** Collected: 10/19/10 09:25 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/23/10 21:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 21:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 21:00	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 21:00	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 21:00	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 21:00	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		1		10/23/10 21:00	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/23/10 21:00	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 21:00	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		10/23/10 21:00	17060-07-0	

Sample: MW-10 **Lab ID: 9280235009** Collected: 10/19/10 09:40 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/21/10 14:16	10/22/10 01:42	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	10/21/10 14:16	10/22/10 01:42	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		10/23/10 21:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/23/10 21:18	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 21:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/23/10 21:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/23/10 21:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/23/10 21:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 21:18	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/23/10 21:18	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/23/10 21:18	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 21:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/23/10 21:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 21:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 21:18	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 21:18	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 21:18	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 21:18	95-47-6	
Dibromofluoromethane (S)	105	%	70-130		1		10/23/10 21:18	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		10/23/10 21:18	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 21:18	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		10/23/10 21:18	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: MW-11 **Lab ID: 9280235010** Collected: 10/19/10 09:50 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:17	10/22/10 02:01	106-93-4	
1-Chloro-2-bromopropane (S)	107	%	60-140		1	10/21/10 14:17	10/22/10 02:01	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		10/23/10 21:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/23/10 21:37	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 21:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/23/10 21:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/23/10 21:37	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/23/10 21:37	762-75-4	
1,2-Dichloroethane	**1.3J**	ug/L	5.0	1.3	1		10/23/10 21:37	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/23/10 21:37	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/23/10 21:37	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 21:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/23/10 21:37	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 21:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 21:37	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 21:37	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 21:37	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 21:37	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		10/23/10 21:37	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/23/10 21:37	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 21:37	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		10/23/10 21:37	17060-07-0	

Sample: MW-12 **Lab ID: 9280235011** Collected: 10/19/10 10:15 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**4.8**	ug/L	0.20	0.20	10	10/21/10 14:17	10/22/10 11:24	106-93-4	
1-Chloro-2-bromopropane (S)	0	%	60-140		10	10/21/10 14:17	10/22/10 11:24	301-79-56	S4
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**267**	ug/L	100	62.0	1		10/23/10 22:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/23/10 22:50	994-05-8	
Benzene	**387**	ug/L	125	30.0	25		10/25/10 18:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/23/10 22:50	624-95-3	
tert-Butyl Alcohol	**83.0J**	ug/L	100	27.0	1		10/23/10 22:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/23/10 22:50	762-75-4	
1,2-Dichloroethane	**24.7**	ug/L	5.0	1.3	1		10/23/10 22:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/23/10 22:50	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/23/10 22:50	64-17-5	
Ethylbenzene	**120**	ug/L	5.0	1.1	1		10/23/10 22:50	100-41-4	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: MW-12 **Lab ID: 9280235011** Collected: 10/19/10 10:15 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/23/10 22:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 22:50	1634-04-4	
Naphthalene	**187**	ug/L	125	72.5	25		10/25/10 18:26	91-20-3	
Toluene	**1210**	ug/L	125	45.0	25		10/25/10 18:26	108-88-3	
m&p-Xylene	**1330**	ug/L	250	67.5	25		10/25/10 18:26	179601-23-1	
o-Xylene	**1320**	ug/L	125	42.5	25		10/25/10 18:26	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		10/23/10 22:50	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		10/23/10 22:50	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		1		10/23/10 22:50	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/23/10 22:50	17060-07-0	

Sample: MW-13 **Lab ID: 9280235012** Collected: 10/19/10 10:25 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.022**	ug/L	0.020	0.020	1	10/21/10 14:17	10/22/10 02:55	106-93-4	
1-Chloro-2-bromopropane (S)	106	%	60-140		1	10/21/10 14:17	10/22/10 02:55	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**1260**	ug/L	200	124	2		10/23/10 21:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	9.0	2		10/23/10 21:55	994-05-8	
Benzene	**333**	ug/L	10.0	2.4	2		10/23/10 21:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	96.0	2		10/23/10 21:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	54.0	2		10/23/10 21:55	75-65-0	
tert-Butyl Formate	ND	ug/L	100	18.0	2		10/23/10 21:55	762-75-4	
1,2-Dichloroethane	**61.9**	ug/L	10.0	2.6	2		10/23/10 21:55	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	5.4	2		10/23/10 21:55	108-20-3	
Ethanol	ND	ug/L	400	340	2		10/23/10 21:55	64-17-5	
Ethylbenzene	**58.3**	ug/L	10.0	2.2	2		10/23/10 21:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	9.2	2		10/23/10 21:55	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	4.0	2		10/23/10 21:55	1634-04-4	
Naphthalene	**10.1**	ug/L	10.0	5.8	2		10/23/10 21:55	91-20-3	
Toluene	**109**	ug/L	10.0	3.6	2		10/23/10 21:55	108-88-3	
m&p-Xylene	**180**	ug/L	20.0	5.4	2		10/23/10 21:55	179601-23-1	
o-Xylene	**102**	ug/L	10.0	3.4	2		10/23/10 21:55	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		2		10/23/10 21:55	1868-53-7	
Toluene-d8 (S)	102	%	70-130		2		10/23/10 21:55	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		2		10/23/10 21:55	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		2		10/23/10 21:55	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: MW-14 | **Lab ID: 9280235013** | Collected: 10/19/10 09:55 | Received: 10/20/10 14:20 | Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:17	10/22/10 03:14	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	10/21/10 14:17	10/22/10 03:14	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		10/23/10 22:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/23/10 22:13	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 22:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/23/10 22:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/23/10 22:13	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/23/10 22:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 22:13	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/23/10 22:13	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/23/10 22:13	64-17-5	
Ethylbenzene	**2.5J**	ug/L	5.0	1.1	1		10/23/10 22:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/23/10 22:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 22:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 22:13	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 22:13	108-88-3	
m&p-Xylene	**5.6J**	ug/L	10.0	2.7	1		10/23/10 22:13	179601-23-1	
o-Xylene	**3.9J**	ug/L	5.0	1.7	1		10/23/10 22:13	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		10/23/10 22:13	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/23/10 22:13	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		10/23/10 22:13	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/23/10 22:13	17060-07-0	

Sample: MW-15 | **Lab ID: 9280235014** | Collected: 10/19/10 10:30 | Received: 10/20/10 14:20 | Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:18	10/22/10 03:32	106-93-4	
1-Chloro-2-bromopropane (S)	106	%	60-140		1	10/21/10 14:18	10/22/10 03:32	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		10/23/10 22:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/23/10 22:31	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 22:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/23/10 22:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/23/10 22:31	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/23/10 22:31	762-75-4	
1,2-Dichloroethane	**3.0J**	ug/L	5.0	1.3	1		10/23/10 22:31	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/23/10 22:31	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/23/10 22:31	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 22:31	100-41-4	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: MW-15 **Lab ID: 9280235014** Collected: 10/19/10 10:30 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/23/10 22:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 22:31	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 22:31	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 22:31	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 22:31	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 22:31	95-47-6	
Dibromofluoromethane (S)	104	%	70-130		1		10/23/10 22:31	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/23/10 22:31	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		10/23/10 22:31	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		10/23/10 22:31	17060-07-0	

Sample: MW-16 **Lab ID: 9280235015** Collected: 10/19/10 11:45 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:18	10/22/10 03:50	106-93-4	
1-Chloro-2-bromopropane (S)	105	%	60-140		1	10/21/10 14:18	10/22/10 03:50	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**360**	ug/L	100	62.0	1		10/22/10 02:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/22/10 02:39	994-05-8	
Benzene	**246**	ug/L	10.0	2.4	2		10/23/10 11:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/22/10 02:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/22/10 02:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/22/10 02:39	762-75-4	
1,2-Dichloroethane	**2.5J**	ug/L	5.0	1.3	1		10/22/10 02:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/22/10 02:39	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/22/10 02:39	64-17-5	
Ethylbenzene	**14.3**	ug/L	5.0	1.1	1		10/22/10 02:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/22/10 02:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/22/10 02:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/22/10 02:39	91-20-3	
Toluene	**26.1**	ug/L	5.0	1.8	1		10/22/10 02:39	108-88-3	
m&p-Xylene	**152**	ug/L	10.0	2.7	1		10/22/10 02:39	179601-23-1	
o-Xylene	**77.2**	ug/L	5.0	1.7	1		10/22/10 02:39	95-47-6	
Dibromofluoromethane (S)	114	%	70-130		1		10/22/10 02:39	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		10/22/10 02:39	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		10/22/10 02:39	460-00-4	
1,2-Dichloroethane-d4 (S)	124	%	70-130		1		10/22/10 02:39	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: MW-17 **Lab ID: 9280235016** Collected: 10/19/10 11:00 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:18	10/22/10 04:08	106-93-4	
1-Chloro-2-bromopropane (S)	106	%	60-140		1	10/21/10 14:18	10/22/10 04:08	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		10/22/10 02:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/22/10 02:58	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		10/22/10 02:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/22/10 02:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/22/10 02:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/22/10 02:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/22/10 02:58	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/22/10 02:58	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/22/10 02:58	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/22/10 02:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/22/10 02:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/22/10 02:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/22/10 02:58	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/22/10 02:58	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/22/10 02:58	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/22/10 02:58	95-47-6	
Dibromofluoromethane (S)	118	%	70-130		1		10/22/10 02:58	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/22/10 02:58	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		10/22/10 02:58	460-00-4	
1,2-Dichloroethane-d4 (S)	123	%	70-130		1		10/22/10 02:58	17060-07-0	

Sample: MW-18 **Lab ID: 9280235017** Collected: 10/19/10 11:10 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/21/10 14:18	10/22/10 04:27	106-93-4	
1-Chloro-2-bromopropane (S)	104	%	60-140		1	10/21/10 14:18	10/22/10 04:27	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		10/22/10 03:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/22/10 03:16	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		10/22/10 03:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/22/10 03:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/22/10 03:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/22/10 03:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/22/10 03:16	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/22/10 03:16	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/22/10 03:16	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/22/10 03:16	100-41-4	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: MW-18 **Lab ID: 9280235017** Collected: 10/19/10 11:10 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/22/10 03:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/22/10 03:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/22/10 03:16	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/22/10 03:16	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/22/10 03:16	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/22/10 03:16	95-47-6	
Dibromofluoromethane (S)	120	%	70-130		1		10/22/10 03:16	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		10/22/10 03:16	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/22/10 03:16	460-00-4	
1,2-Dichloroethane-d4 (S)	127	%	70-130		1		10/22/10 03:16	17060-07-0	

Sample: MW-19 **Lab ID: 9280235018** Collected: 10/19/10 11:30 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:18	10/22/10 04:45	106-93-4	
1-Chloro-2-bromopropane (S)	106	%	60-140		1	10/21/10 14:18	10/22/10 04:45	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		10/22/10 03:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/22/10 03:34	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		10/22/10 03:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/22/10 03:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/22/10 03:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/22/10 03:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/22/10 03:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/22/10 03:34	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/22/10 03:34	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/22/10 03:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/22/10 03:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/22/10 03:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/22/10 03:34	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/22/10 03:34	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/22/10 03:34	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/22/10 03:34	95-47-6	
Dibromofluoromethane (S)	118	%	70-130		1		10/22/10 03:34	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		10/22/10 03:34	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		10/22/10 03:34	460-00-4	
1,2-Dichloroethane-d4 (S)	127	%	70-130		1		10/22/10 03:34	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: TW-1 **Lab ID: 9280235019** Collected: 10/18/10 17:15 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:21	10/22/10 05:03	106-93-4	
1-Chloro-2-bromopropane (S)	105	%	60-140		1	10/21/10 14:21	10/22/10 05:03	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**1180**	ug/L	100	62.0	1		10/22/10 02:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/22/10 02:03	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		10/22/10 02:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/22/10 02:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/22/10 02:03	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/22/10 02:03	762-75-4	
1,2-Dichloroethane	**64.2**	ug/L	5.0	1.3	1		10/22/10 02:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/22/10 02:03	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/22/10 02:03	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/22/10 02:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/22/10 02:03	637-92-3	
Methyl-tert-butyl ether	**5.7**	ug/L	5.0	2.0	1		10/22/10 02:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/22/10 02:03	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/22/10 02:03	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/22/10 02:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/22/10 02:03	95-47-6	
Dibromofluoromethane (S)	118	%	70-130		1		10/22/10 02:03	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		10/22/10 02:03	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		10/22/10 02:03	460-00-4	
1,2-Dichloroethane-d4 (S)	129	%	70-130		1		10/22/10 02:03	17060-07-0	

Sample: TW-2 **Lab ID: 9280235020** Collected: 10/19/10 10:45 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:21	10/22/10 05:22	106-93-4	
1-Chloro-2-bromopropane (S)	106	%	60-140		1	10/21/10 14:21	10/22/10 05:22	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**95.4J**	ug/L	100	62.0	1		10/22/10 03:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/22/10 03:52	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		10/22/10 03:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/22/10 03:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/22/10 03:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/22/10 03:52	762-75-4	
1,2-Dichloroethane	**4.2J**	ug/L	5.0	1.3	1		10/22/10 03:52	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/22/10 03:52	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/22/10 03:52	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/22/10 03:52	100-41-4	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: TW-2 **Lab ID: 9280235020** Collected: 10/19/10 10:45 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/22/10 03:52	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/22/10 03:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/22/10 03:52	91-20-3	
Toluene	**3.4J**	ug/L	5.0	1.8	1		10/22/10 03:52	108-88-3	
m&p-Xylene	**2.8J**	ug/L	10.0	2.7	1		10/22/10 03:52	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/22/10 03:52	95-47-6	
Dibromofluoromethane (S)	125	%	70-130		1		10/22/10 03:52	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		10/22/10 03:52	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		10/22/10 03:52	460-00-4	
1,2-Dichloroethane-d4 (S)	134	%	70-130		1		10/22/10 03:52	17060-07-0	S3

Sample: TW-3 **Lab ID: 9280235021** Collected: 10/19/10 09:15 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:21	10/22/10 05:40	106-93-4	
1-Chloro-2-bromopropane (S)	104	%	60-140		1	10/21/10 14:21	10/22/10 05:40	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		10/22/10 04:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/22/10 04:10	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		10/22/10 04:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/22/10 04:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/22/10 04:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/22/10 04:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/22/10 04:10	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/22/10 04:10	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/22/10 04:10	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/22/10 04:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/22/10 04:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/22/10 04:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/22/10 04:10	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/22/10 04:10	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/22/10 04:10	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/22/10 04:10	95-47-6	
Dibromofluoromethane (S)	123	%	70-130		1		10/22/10 04:10	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		10/22/10 04:10	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/22/10 04:10	460-00-4	
1,2-Dichloroethane-d4 (S)	129	%	70-130		1		10/22/10 04:10	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: TW-4 **Lab ID: 9280235022** Collected: 10/19/10 09:35 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/21/10 14:21	10/22/10 05:58	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	10/21/10 14:21	10/22/10 05:58	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		10/29/10 14:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/29/10 14:36	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		10/29/10 14:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/29/10 14:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/29/10 14:36	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/29/10 14:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/29/10 14:36	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/29/10 14:36	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/29/10 14:36	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/29/10 14:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/29/10 14:36	637-92-3	
Methyl-tert-butyl ether	**2.9J**	ug/L	5.0	2.0	1		10/29/10 14:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/29/10 14:36	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/29/10 14:36	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/29/10 14:36	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/29/10 14:36	95-47-6	
Dibromofluoromethane (S)	98	%	70-130		1		10/29/10 14:36	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		10/29/10 14:36	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		10/29/10 14:36	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		10/29/10 14:36	17060-07-0	

Sample: TW-5 **Lab ID: 9280235023** Collected: 10/19/10 10:10 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:21	10/22/10 06:16	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	10/21/10 14:21	10/22/10 06:16	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		10/29/10 14:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/29/10 14:55	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		10/29/10 14:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/29/10 14:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/29/10 14:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/29/10 14:55	762-75-4	
1,2-Dichloroethane	**1.7J**	ug/L	5.0	1.3	1		10/29/10 14:55	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/29/10 14:55	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/29/10 14:55	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/29/10 14:55	100-41-4	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: TW-5 **Lab ID: 9280235023** Collected: 10/19/10 10:10 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/29/10 14:55	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/29/10 14:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/29/10 14:55	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/29/10 14:55	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/29/10 14:55	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/29/10 14:55	95-47-6	
Dibromofluoromethane (S)	96	%	70-130		1		10/29/10 14:55	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		10/29/10 14:55	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		10/29/10 14:55	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/29/10 14:55	17060-07-0	

Sample: TW-6 **Lab ID: 9280235024** Collected: 10/19/10 11:40 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:22	10/22/10 06:34	106-93-4	
1-Chloro-2-bromopropane (S)	100	%	60-140		1	10/21/10 14:22	10/22/10 06:34	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		10/29/10 15:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/29/10 15:13	994-05-8	
Benzene	**1.5J**	ug/L	5.0	1.2	1		10/29/10 15:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/29/10 15:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/29/10 15:13	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/29/10 15:13	762-75-4	
1,2-Dichloroethane	**5.1**	ug/L	5.0	1.3	1		10/29/10 15:13	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/29/10 15:13	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/29/10 15:13	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/29/10 15:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/29/10 15:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/29/10 15:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/29/10 15:13	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/29/10 15:13	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/29/10 15:13	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/29/10 15:13	95-47-6	
Dibromofluoromethane (S)	98	%	70-130		1		10/29/10 15:13	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/29/10 15:13	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		10/29/10 15:13	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/29/10 15:13	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: TW-7 | **Lab ID: 9280235025** | Collected: 10/19/10 10:55 | Received: 10/20/10 14:20 | Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 14:22	10/22/10 06:53	106-93-4	
1-Chloro-2-bromopropane (S)	104	%	60-140		1	10/21/10 14:22	10/22/10 06:53	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		10/29/10 15:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/29/10 15:32	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		10/29/10 15:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/29/10 15:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/29/10 15:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/29/10 15:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/29/10 15:32	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/29/10 15:32	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/29/10 15:32	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/29/10 15:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/29/10 15:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/29/10 15:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/29/10 15:32	91-20-3	
Toluene	**1.9J**	ug/L	5.0	1.8	1		10/29/10 15:32	108-88-3	
m&p-Xylene	**3.8J**	ug/L	10.0	2.7	1		10/29/10 15:32	179601-23-1	
o-Xylene	**1.8J**	ug/L	5.0	1.7	1		10/29/10 15:32	95-47-6	
Dibromofluoromethane (S)	88	%	70-130		1		10/29/10 15:32	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/29/10 15:32	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		10/29/10 15:32	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		10/29/10 15:32	17060-07-0	

Sample: TW-8 | **Lab ID: 9280235026** | Collected: 10/19/10 11:25 | Received: 10/20/10 14:20 | Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/21/10 13:58	10/22/10 07:26	106-93-4	
1-Chloro-2-bromopropane (S)	89	%	60-140		1	10/21/10 13:58	10/22/10 07:26	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		10/29/10 15:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		10/29/10 15:50	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		10/29/10 15:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		10/29/10 15:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		10/29/10 15:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		10/29/10 15:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/29/10 15:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		10/29/10 15:50	108-20-3	
Ethanol	ND	ug/L	200	170	1		10/29/10 15:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/29/10 15:50	100-41-4	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: TW-8 **Lab ID: 9280235026** Collected: 10/19/10 11:25 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		10/29/10 15:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/29/10 15:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/29/10 15:50	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/29/10 15:50	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/29/10 15:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/29/10 15:50	95-47-6	
Dibromofluoromethane (S)	93	%	70-130		1		10/29/10 15:50	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/29/10 15:50	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		1		10/29/10 15:50	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		10/29/10 15:50	17060-07-0	

Sample: MW-6 LEAD **Lab ID: 9280235027** Collected: 10/18/10 16:35 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/21/10 11:30	10/23/10 02:30	7439-92-1	

Sample: MW-7 LEAD **Lab ID: 9280235028** Collected: 10/18/10 16:15 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/21/10 11:30	10/23/10 02:33	7439-92-1	

Sample: MW-8 LEAD **Lab ID: 9280235029** Collected: 10/18/10 15:35 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/21/10 11:30	10/23/10 02:37	7439-92-1	

Sample: MW-9 LEAD **Lab ID: 9280235030** Collected: 10/18/10 13:50 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/21/10 11:30	10/23/10 02:40	7439-92-1	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: MW-10 LEAD **Lab ID: 9280235031** Collected: 10/18/10 14:25 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/21/10 11:30	10/23/10 02:44	7439-92-1	

Sample: MW-11 LEAD **Lab ID: 9280235032** Collected: 10/18/10 16:05 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/21/10 11:30	10/23/10 02:57	7439-92-1	

Sample: MW-12 LEAD **Lab ID: 9280235033** Collected: 10/18/10 15:10 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/21/10 11:30	10/23/10 03:01	7439-92-1	

Sample: MW-13 LEAD **Lab ID: 9280235034** Collected: 10/18/10 15:30 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/21/10 11:30	10/23/10 03:04	7439-92-1	

Sample: MW-14 LEAD **Lab ID: 9280235035** Collected: 10/18/10 16:10 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/21/10 11:30	10/23/10 03:07	7439-92-1	

Sample: MW-15 LEAD **Lab ID: 9280235036** Collected: 10/18/10 15:45 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/21/10 11:30	10/23/10 03:11	7439-92-1	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: MW-16 LEAD **Lab ID: 9280235037** Collected: 10/18/10 14:45 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/21/10 11:30	10/23/10 03:14	7439-92-1	

Sample: MW-17 LEAD **Lab ID: 9280235038** Collected: 10/18/10 13:00 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**4.3J**	ug/L	5.0	4.0	1	10/21/10 11:30	10/23/10 03:17	7439-92-1	

Sample: MW-18 LEAD **Lab ID: 9280235039** Collected: 10/18/10 15:10 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/21/10 11:30	10/23/10 03:21	7439-92-1	

Sample: MW-19 LEAD **Lab ID: 9280235040** Collected: 10/18/10 14:00 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/21/10 11:30	10/23/10 03:24	7439-92-1	

Sample: TW-1 LEAD **Lab ID: 9280235041** Collected: 10/18/10 12:10 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/21/10 11:30	10/23/10 03:28	7439-92-1	

Sample: TW-2 LEAD **Lab ID: 9280235042** Collected: 10/18/10 12:05 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/21/10 11:30	10/23/10 03:42	7439-92-1	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: TW-3 LEAD **Lab ID: 9280235043** Collected: 10/18/10 13:05 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/21/10 11:30	10/23/10 03:47	7439-92-1	

Sample: TW-4 LEAD **Lab ID: 9280235044** Collected: 10/18/10 14:00 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/22/10 11:15	10/26/10 21:47	7439-92-1	

Sample: TW-5 LEAD **Lab ID: 9280235045** Collected: 10/18/10 14:50 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/22/10 11:15	10/26/10 21:51	7439-92-1	

Sample: TW-6 LEAD **Lab ID: 9280235046** Collected: 10/18/10 14:25 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/22/10 11:15	10/26/10 21:55	7439-92-1	

Sample: TW-7 LEAD **Lab ID: 9280235047** Collected: 10/18/10 12:50 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/22/10 11:15	10/26/10 22:08	7439-92-1	

Sample: TW-8 LEAD **Lab ID: 9280235048** Collected: 10/18/10 13:40 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	10/22/10 11:15	10/26/10 22:14	7439-92-1	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-1 **Lab ID: 9280235049** Collected: 10/19/10 14:05 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:57	10/22/10 02:06	106-93-4	
1-Chloro-2-bromopropane (S)	86	%	60-140		1	10/21/10 13:57	10/22/10 02:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/21/10 15:05	71-43-2	
1,2-Dichloroethane	**2.1J**	ug/L	5.0	1.3	1		10/21/10 15:05	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/21/10 15:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/21/10 15:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/21/10 15:05	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/21/10 15:05	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/21/10 15:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/21/10 15:05	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/21/10 15:05	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		10/21/10 15:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		10/21/10 15:05	17060-07-0	
Toluene-d8 (S)	94	%	70-130		1		10/21/10 15:05	2037-26-5	

Sample: WSW-2 **Lab ID: 9280235050** Collected: 10/19/10 13:55 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:57	10/22/10 02:46	106-93-4	
1-Chloro-2-bromopropane (S)	90	%	60-140		1	10/21/10 13:57	10/22/10 02:46	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 12:29	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 12:29	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 12:29	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 12:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 12:29	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 12:29	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 12:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 12:29	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130		1		10/23/10 12:29	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		10/23/10 12:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		10/23/10 12:29	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/23/10 12:29	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-3 **Lab ID: 9280235051** Collected: 10/19/10 13:00 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/21/10 13:57	10/22/10 03:06	106-93-4	
1-Chloro-2-bromopropane (S)	85	%	60-140		1	10/21/10 13:57	10/22/10 03:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 12:47	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 12:47	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 12:47	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 12:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 12:47	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 12:47	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 12:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 12:47	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130		1		10/23/10 12:47	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		10/23/10 12:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		10/23/10 12:47	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		10/23/10 12:47	2037-26-5	

Sample: WSW-4 **Lab ID: 9280235052** Collected: 10/19/10 12:45 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:57	10/22/10 03:26	106-93-4	
1-Chloro-2-bromopropane (S)	100	%	60-140		1	10/21/10 13:57	10/22/10 03:26	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 13:05	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 13:05	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 13:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 13:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 13:05	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 13:05	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 13:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 13:05	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130		1		10/23/10 13:05	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		10/23/10 13:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		10/23/10 13:05	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/23/10 13:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-5 **Lab ID: 9280235053** Collected: 10/19/10 13:45 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/21/10 13:57	10/22/10 03:46	106-93-4	
1-Chloro-2-bromopropane (S)	91	%	60-140		1	10/21/10 13:57	10/22/10 03:46	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 13:24	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 13:24	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 13:24	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 13:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 13:24	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 13:24	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 13:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 13:24	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		10/23/10 13:24	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		10/23/10 13:24	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		10/23/10 13:24	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		10/23/10 13:24	2037-26-5	

Sample: WSW-6 **Lab ID: 9280235054** Collected: 10/19/10 13:30 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:57	10/22/10 04:06	106-93-4	
1-Chloro-2-bromopropane (S)	88	%	60-140		1	10/21/10 13:57	10/22/10 04:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 13:42	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 13:42	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 13:42	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 13:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 13:42	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 13:42	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 13:42	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 13:42	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 13:42	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		10/23/10 13:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		10/23/10 13:42	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/23/10 13:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-7 **Lab ID: 9280235055** Collected: 10/19/10 14:15 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:57	10/22/10 04:26	106-93-4	
1-Chloro-2-bromopropane (S)	89	%	60-140		1	10/21/10 13:57	10/22/10 04:26	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 14:00	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 14:00	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 14:00	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 14:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 14:00	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 14:00	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 14:00	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 14:00	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 14:00	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		10/23/10 14:00	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		10/23/10 14:00	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/23/10 14:00	2037-26-5	

Sample: WSW-8 **Lab ID: 9280235056** Collected: 10/19/10 14:30 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:57	10/22/10 04:46	106-93-4	
1-Chloro-2-bromopropane (S)	93	%	60-140		1	10/21/10 13:57	10/22/10 04:46	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 14:19	71-43-2	
1,2-Dichloroethane	**9.2**	ug/L	5.0	1.3	1		10/23/10 14:19	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 14:19	100-41-4	
Methyl-tert-butyl ether	**3.6J**	ug/L	5.0	2.0	1		10/23/10 14:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 14:19	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 14:19	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 14:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 14:19	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 14:19	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		10/23/10 14:19	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/23/10 14:19	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		10/23/10 14:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-9 **Lab ID: 9280235057** Collected: 10/19/10 14:40 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/21/10 13:57	10/22/10 05:06	106-93-4	
1-Chloro-2-bromopropane (S)	92	%	60-140		1	10/21/10 13:57	10/22/10 05:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 14:37	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 14:37	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 14:37	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 14:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 14:37	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 14:37	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 14:37	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 14:37	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		10/23/10 14:37	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		10/23/10 14:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/23/10 14:37	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/23/10 14:37	2037-26-5	

Sample: WSW-10 **Lab ID: 9280235058** Collected: 10/19/10 14:50 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/21/10 13:57	10/22/10 05:26	106-93-4	
1-Chloro-2-bromopropane (S)	91	%	60-140		1	10/21/10 13:57	10/22/10 05:26	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 14:55	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 14:55	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 14:55	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 14:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 14:55	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 14:55	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 14:55	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 14:55	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 14:55	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		10/23/10 14:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/23/10 14:55	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/23/10 14:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-11 **Lab ID: 9280235059** Collected: 10/19/10 15:00 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:58	10/22/10 05:46	106-93-4	
1-Chloro-2-bromopropane (S)	90	%	60-140		1	10/21/10 13:58	10/22/10 05:46	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 15:13	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 15:13	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 15:13	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 15:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 15:13	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 15:13	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 15:13	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 15:13	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 15:13	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		10/23/10 15:13	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		10/23/10 15:13	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		10/23/10 15:13	2037-26-5	

Sample: WSW-12 **Lab ID: 9280235060** Collected: 10/19/10 15:05 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:58	10/22/10 06:06	106-93-4	
1-Chloro-2-bromopropane (S)	92	%	60-140		1	10/21/10 13:58	10/22/10 06:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 15:32	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 15:32	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 15:32	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 15:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 15:32	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 15:32	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 15:32	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 15:32	95-47-6	
4-Bromofluorobenzene (S)	95	%	70-130		1		10/23/10 15:32	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		10/23/10 15:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		10/23/10 15:32	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/23/10 15:32	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-13 **Lab ID: 9280235061** Collected: 10/19/10 15:20 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:58	10/22/10 06:26	106-93-4	
1-Chloro-2-bromopropane (S)	91	%	60-140		1	10/21/10 13:58	10/22/10 06:26	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 15:50	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 15:50	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 15:50	100-41-4	
Methyl-tert-butyl ether	**3.2J**	ug/L	5.0	2.0	1		10/23/10 15:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 15:50	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 15:50	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 15:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 15:50	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130		1		10/23/10 15:50	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		10/23/10 15:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		10/23/10 15:50	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/23/10 15:50	2037-26-5	

Sample: WSW-14 **Lab ID: 9280235062** Collected: 10/19/10 15:30 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/21/10 13:58	10/22/10 06:46	106-93-4	
1-Chloro-2-bromopropane (S)	89	%	60-140		1	10/21/10 13:58	10/22/10 06:46	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 16:08	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 16:08	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 16:08	100-41-4	
Methyl-tert-butyl ether	**4.0J**	ug/L	5.0	2.0	1		10/23/10 16:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 16:08	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 16:08	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 16:08	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 16:08	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 16:08	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		10/23/10 16:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		10/23/10 16:08	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/23/10 16:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Sample: WSW-15 **Lab ID: 9280235063** Collected: 10/19/10 15:40 Received: 10/20/10 14:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/21/10 13:58	10/22/10 07:06	106-93-4	
1-Chloro-2-bromopropane (S)	91	%	60-140		1	10/21/10 13:58	10/22/10 07:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
Benzene	ND	ug/L	5.0	1.2	1		10/23/10 16:27	71-43-2	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		10/23/10 16:27	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1.1	1		10/23/10 16:27	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		10/23/10 16:27	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		10/23/10 16:27	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/23/10 16:27	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		10/23/10 16:27	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		10/23/10 16:27	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/10 16:27	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		10/23/10 16:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		10/23/10 16:27	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		10/23/10 16:27	2037-26-5	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9280235

QC Batch: OEXT/11563 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9280235001, 9280235002, 9280235003, 9280235004, 9280235005

METHOD BLANK: 515144 Matrix: Water
Associated Lab Samples: 9280235001, 9280235002, 9280235003, 9280235004, 9280235005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	10/21/10 16:03	
1-Chloro-2-bromopropane (S)	%	96	60-140	10/21/10 16:03	

LABORATORY CONTROL SAMPLE & LCSD: 515145 515146

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.29	0.30	0.30	102	106	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				93	96	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 515147 515148

Parameter	Units	9280203002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.30	0.30	106	106	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						91	91	60-140			

SAMPLE DUPLICATE: 515149

Parameter	Units	9280203003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	93	90	2		

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9280235

QC Batch: OEXT/11564 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9280235006, 9280235007, 9280235008, 9280235009, 9280235010, 9280235011, 9280235012, 9280235013, 9280235014, 9280235015, 9280235016, 9280235017, 9280235018, 9280235019, 9280235020, 9280235021, 9280235022, 9280235023, 9280235024, 9280235025

METHOD BLANK: 515162 Matrix: Water
Associated Lab Samples: 9280235006, 9280235007, 9280235008, 9280235009, 9280235010, 9280235011, 9280235012, 9280235013, 9280235014, 9280235015, 9280235016, 9280235017, 9280235018, 9280235019, 9280235020, 9280235021, 9280235022, 9280235023, 9280235024, 9280235025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	10/21/10 23:17	
1-Chloro-2-bromopropane (S)	%	103	60-140	10/21/10 23:17	

LABORATORY CONTROL SAMPLE & LCSD: 515163 515164

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.29	0.34	0.34	118	120	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				105	108	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 515165 515166

Parameter	Units	9280235006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	0.40	.28	.28	0.72	0.72	114	112	60-140	1	20	
1-Chloro-2-bromopropane (S)	%						109	109	60-140			

SAMPLE DUPLICATE: 515167

Parameter	Units	9280235010 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	107	103	1		

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9280235

QC Batch: OEXT/11570 — Analysis Method: EPA 8011
QC Batch Method: EPA 8011 — Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9280235026, 9280235049, 9280235050, 9280235051, 9280235052, 9280235053, 9280235054, 9280235055, 9280235056, 9280235057, 9280235058, 9280235059, 9280235060, 9280235061, 9280235062, 9280235063

METHOD BLANK: 515263 — Matrix: Water
Associated Lab Samples: 9280235026, 9280235049, 9280235050, 9280235051, 9280235052, 9280235053, 9280235054, 9280235055, 9280235056, 9280235057, 9280235058, 9280235059, 9280235060, 9280235061, 9280235062, 9280235063

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	10/22/10 01:06	
1-Chloro-2-bromopropane (S)	%	85	60-140	10/22/10 01:06	

LABORATORY CONTROL SAMPLE & LCSD: 515264 — 515265

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.29	0.28	0.28	98	96	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				87	86	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 515267 — 515268

Parameter	Units	9280235026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.29	0.29	104	104	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						92	92	60-140			

SAMPLE DUPLICATE: 515266

Parameter	Units	9280235049 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	86	88	0		

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9280235

QC Batch: MPRP/7274 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET
Associated Lab Samples: 9280235027, 9280235028, 9280235029, 9280235030, 9280235031, 9280235032, 9280235033, 9280235034, 9280235035, 9280235036, 9280235037, 9280235038, 9280235039, 9280235040, 9280235041, 9280235042, 9280235043

METHOD BLANK: 515228 — Matrix: Water
Associated Lab Samples: 9280235027, 9280235028, 9280235029, 9280235030, 9280235031, 9280235032, 9280235033, 9280235034, 9280235035, 9280235036, 9280235037, 9280235038, 9280235039, 9280235040, 9280235041, 9280235042, 9280235043

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/23/10 01:54	

LABORATORY CONTROL SAMPLE: 515229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	490	98	80-120	

MATRIX SPIKE SAMPLE: 515230

Parameter	Units	9280117003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	476	95	75-125	

SAMPLE DUPLICATE: 515231

Parameter	Units	9280117004 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9280235

QC Batch: MPRP/7281 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 9280235044, 9280235045, 9280235046, 9280235047, 9280235048

METHOD BLANK: 515876 Matrix: Water
Associated Lab Samples: 9280235044, 9280235045, 9280235046, 9280235047, 9280235048

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/26/10 20:21	

LABORATORY CONTROL SAMPLE: 515877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	473	95	80-120	

MATRIX SPIKE SAMPLE: 515878

Parameter	Units	9280295001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	500	431	84	75-125	

SAMPLE DUPLICATE: 515879

Parameter	Units	9280295002 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9280235

QC Batch: MSV/12742 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 9280235049

METHOD BLANK: 515246 Matrix: Water
Associated Lab Samples: 9280235049

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	10/21/10 10:46	
Benzene	ug/L	ND	5.0	10/21/10 10:46	
Ethylbenzene	ug/L	ND	5.0	10/21/10 10:46	
m&p-Xylene	ug/L	ND	10.0	10/21/10 10:46	
Methyl-tert-butyl ether	ug/L	ND	5.0	10/21/10 10:46	
Naphthalene	ug/L	ND	5.0	10/21/10 10:46	
o-Xylene	ug/L	ND	5.0	10/21/10 10:46	
Toluene	ug/L	ND	5.0	10/21/10 10:46	
1,2-Dichloroethane-d4 (S)	%	97	70-130	10/21/10 10:46	
4-Bromofluorobenzene (S)	%	97	70-130	10/21/10 10:46	
Dibromofluoromethane (S)	%	101	70-130	10/21/10 10:46	
Toluene-d8 (S)	%	98	70-130	10/21/10 10:46	

LABORATORY CONTROL SAMPLE: 515247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.4	91	70-130	
Benzene	ug/L	50	43.5	87	70-130	
Ethylbenzene	ug/L	50	45.1	90	70-130	
m&p-Xylene	ug/L	100	90.6	91	70-130	
Methyl-tert-butyl ether	ug/L	50	45.4	91	70-130	
Naphthalene	ug/L	50	51.9	104	70-130	
o-Xylene	ug/L	50	45.9	92	70-130	
Toluene	ug/L	50	45.0	90	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 515248 515249

Parameter	Units	9280214002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	31.6	49.3	63	99	70-130	44	30	M0,R1
Benzene	ug/L	ND	50	50	35.1	53.6	65	102	70-130	42	30	M0,R1
Ethylbenzene	ug/L	ND	50	50	33.2	51.7	66	103	70-130	43	30	M0,R1
m&p-Xylene	ug/L	ND	100	100	64.6	103	63	102	70-130	46	30	M0,R1
Methyl-tert-butyl ether	ug/L	ND	50	50	33.1	50.7	64	99	70-130	42	30	M0,R1
Naphthalene	ug/L	ND	50	50	34.5	58.2	69	116	70-130	51	30	M0,R1
o-Xylene	ug/L	ND	50	50	32.9	52.5	64	104	70-130	46	30	M0,R1

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9280235

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 515248 515249

Parameter	Units	9280214002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	ND	50	50	33.7	52.4	67	104	70-130	43	30	M0,R1
1,2-Dichloroethane-d4 (S)	%						89	88	70-130			
4-Bromofluorobenzene (S)	%						103	103	70-130			
Dibromofluoromethane (S)	%						98	97	70-130			
Toluene-d8 (S)	%						96	97	70-130			

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9280235

QC Batch: MSV/12743 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV SC

Associated Lab Samples: 9280235050, 9280235051, 9280235052, 9280235053, 9280235054, 9280235055, 9280235056, 9280235057, 9280235058, 9280235059, 9280235060, 9280235061, 9280235062, 9280235063

METHOD BLANK: 515298 Matrix: Water

Associated Lab Samples: 9280235050, 9280235051, 9280235052, 9280235053, 9280235054, 9280235055, 9280235056, 9280235057, 9280235058, 9280235059, 9280235060, 9280235061, 9280235062, 9280235063

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	10/23/10 09:25	
Benzene	ug/L	ND	5.0	10/23/10 09:25	
Ethylbenzene	ug/L	ND	5.0	10/23/10 09:25	
m&p-Xylene	ug/L	ND	10.0	10/23/10 09:25	
Methyl-tert-butyl ether	ug/L	ND	5.0	10/23/10 09:25	
Naphthalene	ug/L	ND	5.0	10/23/10 09:25	
o-Xylene	ug/L	ND	5.0	10/23/10 09:25	
Toluene	ug/L	ND	5.0	10/23/10 09:25	
1,2-Dichloroethane-d4 (S)	%	96	70-130	10/23/10 09:25	
4-Bromofluorobenzene (S)	%	96	70-130	10/23/10 09:25	
Dibromofluoromethane (S)	%	97	70-130	10/23/10 09:25	
Toluene-d8 (S)	%	102	70-130	10/23/10 09:25	

LABORATORY CONTROL SAMPLE: 515299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.3	101	70-130	
Benzene	ug/L	50	50.2	100	70-130	
Ethylbenzene	ug/L	50	51.9	104	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	48.6	97	70-130	
Naphthalene	ug/L	50	48.1	96	70-130	
o-Xylene	ug/L	50	55.2	110	70-130	
Toluene	ug/L	50	51.5	103	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 515300 515301

Parameter	Units	9280235050 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	61.5	60.6	123	121	70-130	1	30	
Benzene	ug/L	ND	50	50	58.2	56.0	116	112	70-130	4	30	
Ethylbenzene	ug/L	ND	50	50	57.3	56.7	114	113	70-130	1	30	
m&p-Xylene	ug/L	ND	100	100	118	115	118	114	70-130	3	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	54.2	53.7	108	107	70-130	1	30	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9280235

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 515300 515301

Parameter	Units	9280235050 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	50	50	50.3	51.5	101	103	70-130	2	30	
o-Xylene	ug/L	ND	50	50	57.1	55.8	114	111	70-130	2	30	
Toluene	ug/L	ND	50	50	55.6	55.7	111	111	70-130	0	30	
1,2-Dichloroethane-d4 (S)	%						103	106	70-130			
4-Bromofluorobenzene (S)	%						102	99	70-130			
Dibromofluoromethane (S)	%						102	104	70-130			
Toluene-d8 (S)	%						100	100	70-130			

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9280235

QC Batch: MSV/12744 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9280235002, 9280235003, 9280235004, 9280235005, 9280235006, 9280235007, 9280235008, 9280235009, 9280235010, 9280235011, 9280235012, 9280235013, 9280235014

METHOD BLANK: 515303 — Matrix: Water
Associated Lab Samples: 9280235002, 9280235003, 9280235004, 9280235005, 9280235006, 9280235007, 9280235008, 9280235009, 9280235010, 9280235011, 9280235012, 9280235013, 9280235014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	10/23/10 19:11	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	10/23/10 19:11	
Benzene	ug/L	ND	5.0	10/23/10 19:11	
Diisopropyl ether	ug/L	ND	5.0	10/23/10 19:11	
Ethanol	ug/L	ND	200	10/23/10 19:11	
Ethyl-tert-butyl ether	ug/L	ND	10.0	10/23/10 19:11	
Ethylbenzene	ug/L	ND	5.0	10/23/10 19:11	
m&p-Xylene	ug/L	ND	10.0	10/23/10 19:11	
Methyl-tert-butyl ether	ug/L	ND	5.0	10/23/10 19:11	
Naphthalene	ug/L	ND	5.0	10/23/10 19:11	
o-Xylene	ug/L	ND	5.0	10/23/10 19:11	
tert-Amyl Alcohol	ug/L	ND	100	10/23/10 19:11	
tert-Amylmethyl ether	ug/L	ND	10.0	10/23/10 19:11	
tert-Butyl Alcohol	ug/L	ND	100	10/23/10 19:11	
tert-Butyl Formate	ug/L	ND	50.0	10/23/10 19:11	
Toluene	ug/L	ND	5.0	10/23/10 19:11	
1,2-Dichloroethane-d4 (S)	%	103	70-130	10/23/10 19:11	
4-Bromofluorobenzene (S)	%	98	70-130	10/23/10 19:11	
Dibromofluoromethane (S)	%	104	70-130	10/23/10 19:11	
Toluene-d8 (S)	%	103	70-130	10/23/10 19:11	

LABORATORY CONTROL SAMPLE: 515304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	54.7	109	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	869	87	70-130	
Benzene	ug/L	50	51.4	103	70-130	
Diisopropyl ether	ug/L	50	54.6	109	70-130	
Ethanol	ug/L	2000	1990	100	70-130	
Ethyl-tert-butyl ether	ug/L	100	103	103	70-130	
Ethylbenzene	ug/L	50	52.1	104	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	52.5	105	70-130	
Naphthalene	ug/L	50	49.6	99	70-130	
o-Xylene	ug/L	50	50.8	102	70-130	
tert-Amyl Alcohol	ug/L	1000	948	95	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	514	103	70-130	
tert-Butyl Formate	ug/L	400	352	88	70-130	
Toluene	ug/L	50	50.6	101	70-130	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9280235

LABORATORY CONTROL SAMPLE: 515304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 515305 515306

Parameter	Units	9280235004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	6.6	50	50	85.4	58.5	158	104	70-130	37	30	M0,R1
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	1040	1020	104	102	70-130	2	30	
Benzene	ug/L	102	50	50	152	141	99	78	70-130	7	30	
Diisopropyl ether	ug/L	ND	50	50	80.7	55.1	161	109	70-130	38	30	M0,R1
Ethanol	ug/L	ND	2000	2000	1950	2810	98	141	70-130	36	30	M0,R1
Ethyl-tert-butyl ether	ug/L	ND	100	100	148	108	148	108	70-130	32	30	M0,R1
Ethylbenzene	ug/L	4.1J	50	50	62.8	58.1	117	108	70-130	8	30	
m&p-Xylene	ug/L	115	100	100	232	210	117	95	70-130	10	30	
Methyl-tert-butyl ether	ug/L	3.2J	50	50	75.3	52.9	144	99	70-130	35	30	M0,R1
Naphthalene	ug/L	43.5	50	50	108	99.5	129	112	70-130	8	30	
o-Xylene	ug/L	20.9	50	50	77.9	72.1	114	102	70-130	8	30	
tert-Amyl Alcohol	ug/L	168	1000	1000	1650	1180	149	101	70-130	33	30	M0,R1
tert-Amylmethyl ether	ug/L	ND	100	100	108	107	108	107	70-130	1	30	
tert-Butyl Alcohol	ug/L	ND	500	500	931	595	186	119	70-130	44	30	M0,R1
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	50	50	59.2	54.5	115	106	70-130	8	30	
1,2-Dichloroethane-d4 (S)	%						132	96	70-130			S0
4-Bromofluorobenzene (S)	%						101	97	70-130			
Dibromofluoromethane (S)	%						136	90	70-130			S0
Toluene-d8 (S)	%						100	99	70-130			

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9280235

QC Batch: MSV/12753 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9280235015, 9280235016, 9280235017, 9280235018, 9280235019, 9280235020, 9280235021

METHOD BLANK: 515469 Matrix: Water

Associated Lab Samples: 9280235015, 9280235016, 9280235017, 9280235018, 9280235019, 9280235020, 9280235021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	10/21/10 19:58	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	10/21/10 19:58	
Benzene	ug/L	ND	5.0	10/21/10 19:58	
Diisopropyl ether	ug/L	ND	5.0	10/21/10 19:58	
Ethanol	ug/L	ND	200	10/21/10 19:58	
Ethyl-tert-butyl ether	ug/L	ND	10.0	10/21/10 19:58	
Ethylbenzene	ug/L	ND	5.0	10/21/10 19:58	
m&p-Xylene	ug/L	ND	10.0	10/21/10 19:58	
Methyl-tert-butyl ether	ug/L	ND	5.0	10/21/10 19:58	
Naphthalene	ug/L	ND	5.0	10/21/10 19:58	
o-Xylene	ug/L	ND	5.0	10/21/10 19:58	
tert-Amyl Alcohol	ug/L	ND	100	10/21/10 19:58	
tert-Amylmethyl ether	ug/L	ND	10.0	10/21/10 19:58	
tert-Butyl Alcohol	ug/L	ND	100	10/21/10 19:58	
tert-Butyl Formate	ug/L	ND	50.0	10/21/10 19:58	
Toluene	ug/L	ND	5.0	10/21/10 19:58	
1,2-Dichloroethane-d4 (S)	%	120	70-130	10/21/10 19:58	
4-Bromofluorobenzene (S)	%	97	70-130	10/21/10 19:58	
Dibromofluoromethane (S)	%	116	70-130	10/21/10 19:58	
Toluene-d8 (S)	%	106	70-130	10/21/10 19:58	

LABORATORY CONTROL SAMPLE: 515470

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	56.4	113	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	876	88	70-130	
Benzene	ug/L	50	48.4	97	70-130	
Diisopropyl ether	ug/L	50	60.4	121	70-130	
Ethanol	ug/L	2000	2920	146	70-130	L3
Ethyl-tert-butyl ether	ug/L	100	112	112	70-130	
Ethylbenzene	ug/L	50	47.2	94	70-130	
m&p-Xylene	ug/L	100	95.0	95	70-130	
Methyl-tert-butyl ether	ug/L	50	53.7	107	70-130	
Naphthalene	ug/L	50	45.2	90	70-130	
o-Xylene	ug/L	50	48.1	96	70-130	
tert-Amyl Alcohol	ug/L	1000	1040	104	70-130	
tert-Amylmethyl ether	ug/L	100	99.5	100	70-130	
tert-Butyl Alcohol	ug/L	500	680	136	70-130	L3
tert-Butyl Formate	ug/L	400	421	105	70-130	
Toluene	ug/L	50	49.8	100	70-130	
1,2-Dichloroethane-d4 (S)	%			113	70-130	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9280235

LABORATORY CONTROL SAMPLE: 515470

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			113	70-130	
Toluene-d8 (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 515471 515472

Parameter	Units	9280235021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	68.9	62.1	138	124	70-130	10	30	M0
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	901	894	90	89	70-130	1	30	
Benzene	ug/L	ND	50	50	58.5	54.5	117	109	70-130	7	30	
Diisopropyl ether	ug/L	ND	50	50	73.1	67.4	146	135	70-130	8	30	M0
Ethanol	ug/L	ND	2000	2000	1580	2710	79	136	70-130	53	30	M0,R1
Ethyl-tert-butyl ether	ug/L	ND	100	100	137	124	137	124	70-130	10	30	M0
Ethylbenzene	ug/L	ND	50	50	53.1	47.7	106	95	70-130	11	30	
m&p-Xylene	ug/L	ND	100	100	106	97.4	106	97	70-130	9	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	63.0	57.9	126	116	70-130	8	30	
Naphthalene	ug/L	ND	50	50	49.6	47.3	99	95	70-130	5	30	
o-Xylene	ug/L	ND	50	50	56.1	49.4	112	99	70-130	13	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	1160	1180	116	118	70-130	2	30	
tert-Amylmethyl ether	ug/L	ND	100	100	117	112	117	112	70-130	4	30	
tert-Butyl Alcohol	ug/L	ND	500	500	783	802	157	160	70-130	2	30	M0
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	50	50	57.8	53.6	115	107	70-130	8	30	
1,2-Dichloroethane-d4 (S)	%						118	117	70-130			
4-Bromofluorobenzene (S)	%						99	97	70-130			
Dibromofluoromethane (S)	%						115	112	70-130			
Toluene-d8 (S)	%						105	105	70-130			

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9280235

QC Batch: MSV/12789 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9280235001

METHOD BLANK: 517218 | Matrix: Water
Associated Lab Samples: 9280235001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	10/25/10 15:40	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	10/25/10 15:40	
Benzene	ug/L	ND	5.0	10/25/10 15:40	
Diisopropyl ether	ug/L	ND	5.0	10/25/10 15:40	
Ethanol	ug/L	ND	200	10/25/10 15:40	
Ethyl-tert-butyl ether	ug/L	ND	10.0	10/25/10 15:40	
Ethylbenzene	ug/L	ND	5.0	10/25/10 15:40	
m&p-Xylene	ug/L	ND	10.0	10/25/10 15:40	
Methyl-tert-butyl ether	ug/L	ND	5.0	10/25/10 15:40	
Naphthalene	ug/L	ND	5.0	10/25/10 15:40	
o-Xylene	ug/L	ND	5.0	10/25/10 15:40	
tert-Amyl Alcohol	ug/L	ND	100	10/25/10 15:40	
tert-Amylmethyl ether	ug/L	ND	10.0	10/25/10 15:40	
tert-Butyl Alcohol	ug/L	ND	100	10/25/10 15:40	
tert-Butyl Formate	ug/L	ND	50.0	10/25/10 15:40	
Toluene	ug/L	ND	5.0	10/25/10 15:40	
1,2-Dichloroethane-d4 (S)	%	100	70-130	10/25/10 15:40	
4-Bromofluorobenzene (S)	%	97	70-130	10/25/10 15:40	
Dibromofluoromethane (S)	%	101	70-130	10/25/10 15:40	
Toluene-d8 (S)	%	95	70-130	10/25/10 15:40	

LABORATORY CONTROL SAMPLE: 517219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.1	88	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	944	94	70-130	
Benzene	ug/L	50	46.5	93	70-130	
Diisopropyl ether	ug/L	50	37.9	76	70-130	
Ethanol	ug/L	2000	1660	83	70-130	
Ethyl-tert-butyl ether	ug/L	100	87.6	88	70-130	
Ethylbenzene	ug/L	50	44.6	89	70-130	
m&p-Xylene	ug/L	100	87.1	87	70-130	
Methyl-tert-butyl ether	ug/L	50	36.3	73	70-130	
Naphthalene	ug/L	50	58.6	117	70-130	
o-Xylene	ug/L	50	51.2	102	70-130	
tert-Amyl Alcohol	ug/L	1000	1030	103	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	424	85	70-130	
tert-Butyl Formate	ug/L	400	384	96	70-130	
Toluene	ug/L	50	46.9	94	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9280235

LABORATORY CONTROL SAMPLE: 517219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			106	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 517220 517221

Parameter	Units	9280362013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	34.8	49.3	70	99	70-130	34	30	R1
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	568	917	57	92	70-130	47	30	M0,R1
Benzene	ug/L	ND	50	50	32.6	46.4	65	93	70-130	35	30	M0,R1
Diisopropyl ether	ug/L	ND	50	50	33.0	49.5	66	99	70-130	40	30	M0,R1
Ethanol	ug/L	ND	2000	2000	1340	2240	67	112	70-130	50	30	M0,R1
Ethyl-tert-butyl ether	ug/L	ND	100	100	64.7	95.5	65	96	70-130	38	30	M0,R1
Ethylbenzene	ug/L	ND	50	50	31.3	45.7	63	91	70-130	37	30	M0,R1
m&p-Xylene	ug/L	ND	100	100	59.9	87.9	60	88	70-130	38	30	M0,R1
Methyl-tert-butyl ether	ug/L	ND	50	50	32.4	49.0	65	98	70-130	41	30	M0,R1
Naphthalene	ug/L	ND	50	50	28.6	51.5	57	103	70-130	57	30	M0,R1
o-Xylene	ug/L	ND	50	50	35.4	49.8	71	100	70-130	34	30	R1
tert-Amyl Alcohol	ug/L	ND	1000	1000	611	986	61	99	70-130	47	30	M0,R1
tert-Amylmethyl ether	ug/L	ND	100	100	69.8	106	70	106	70-130	41	30	R1
tert-Butyl Alcohol	ug/L	ND	500	500	316	555	63	111	70-130	55	30	M0,R1
tert-Butyl Formate	ug/L	ND	400	400	93.7	131	23	33	70-130	33	30	P5
Toluene	ug/L	ND	50	50	32.7	44.0	65	88	70-130	29	30	M0
1,2-Dichloroethane-d4 (S)	%						107	104	70-130			
4-Bromofluorobenzene (S)	%						104	97	70-130			
Dibromofluoromethane (S)	%						99	105	70-130			
Toluene-d8 (S)	%						99	94	70-130			

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9280235

QC Batch: MSV/12850 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9280235022, 9280235023, 9280235024, 9280235025, 9280235026

METHOD BLANK: 519805 Matrix: Water
Associated Lab Samples: 9280235022, 9280235023, 9280235024, 9280235025, 9280235026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	10/29/10 13:59	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	10/29/10 13:59	
Benzene	ug/L	ND	5.0	10/29/10 13:59	
Diisopropyl ether	ug/L	ND	5.0	10/29/10 13:59	
Ethanol	ug/L	ND	200	10/29/10 13:59	
Ethyl-tert-butyl ether	ug/L	ND	10.0	10/29/10 13:59	
Ethylbenzene	ug/L	ND	5.0	10/29/10 13:59	
m&p-Xylene	ug/L	ND	10.0	10/29/10 13:59	
Methyl-tert-butyl ether	ug/L	ND	5.0	10/29/10 13:59	
Naphthalene	ug/L	ND	5.0	10/29/10 13:59	
o-Xylene	ug/L	ND	5.0	10/29/10 13:59	
tert-Amyl Alcohol	ug/L	ND	100	10/29/10 13:59	
tert-Amylmethyl ether	ug/L	ND	10.0	10/29/10 13:59	
tert-Butyl Alcohol	ug/L	ND	100	10/29/10 13:59	
tert-Butyl Formate	ug/L	ND	50.0	10/29/10 13:59	
Toluene	ug/L	ND	5.0	10/29/10 13:59	
1,2-Dichloroethane-d4 (S)	%	92	70-130	10/29/10 13:59	
4-Bromofluorobenzene (S)	%	105	70-130	10/29/10 13:59	
Dibromofluoromethane (S)	%	95	70-130	10/29/10 13:59	
Toluene-d8 (S)	%	100	70-130	10/29/10 13:59	

LABORATORY CONTROL SAMPLE: 519806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	53.6	107	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	987	99	70-130	
Benzene	ug/L	50	54.2	108	70-130	
Diisopropyl ether	ug/L	50	53.1	106	70-130	
Ethanol	ug/L	2000	2060	103	70-130	
Ethyl-tert-butyl ether	ug/L	100	108	108	70-130	
Ethylbenzene	ug/L	50	50.9	102	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	50.9	102	70-130	
Naphthalene	ug/L	50	46.2	92	70-130	
o-Xylene	ug/L	50	49.2	98	70-130	
tert-Amyl Alcohol	ug/L	1000	949	95	70-130	
tert-Amylmethyl ether	ug/L	100	106	106	70-130	
tert-Butyl Alcohol	ug/L	500	555	111	70-130	
tert-Butyl Formate	ug/L	400	370	93	70-130	
Toluene	ug/L	50	52.6	105	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9280235

LABORATORY CONTROL SAMPLE: 519806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 519807 519808

Parameter	Units	9280785002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	56.4	54.8	113	110	70-130	3	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	886	830	89	83	70-130	7	30	
Benzene	ug/L	ND	50	50	54.5	54.8	108	108	70-130	1	30	
Diisopropyl ether	ug/L	ND	50	50	56.5	56.9	113	114	70-130	1	30	
Ethanol	ug/L	ND	2000	2000	9040	1980	452	99	70-130	128	30	E,M0, R1
Ethyl-tert-butyl ether	ug/L	ND	100	100	112	113	112	113	70-130	1	30	
Ethylbenzene	ug/L	ND	50	50	52.0	55.4	103	110	70-130	6	30	
m&p-Xylene	ug/L	ND	100	100	106	102	105	101	70-130	4	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	54.3	55.4	109	111	70-130	2	30	
Naphthalene	ug/L	ND	50	50	48.9	53.4	94	103	70-130	9	30	
o-Xylene	ug/L	ND	50	50	50.8	51.9	101	103	70-130	2	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	886	845	89	84	70-130	5	30	
tert-Amylmethyl ether	ug/L	ND	100	100	113	112	113	112	70-130	1	30	
tert-Butyl Alcohol	ug/L	ND	500	500	471	441	94	88	70-130	7	30	
tert-Butyl Formate	ug/L	ND	400	400	38.1J	38.2J	10	10	70-130		30	P5
Toluene	ug/L	ND	50	50	53.7	54.5	106	107	70-130	1	30	
1,2-Dichloroethane-d4 (S)	%						97	93	70-130			
4-Bromofluorobenzene (S)	%						102	102	70-130			
Dibromofluoromethane (S)	%						95	93	70-130			
Toluene-d8 (S)	%						102	102	70-130			

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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 378 TRUCK STOP
Pace Project No.: 9280235

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9280235001	MW-2	EPA 8011	OEXT/11563	EPA 8011	GCSV/8588
9280235002	MW-3	EPA 8011	OEXT/11563	EPA 8011	GCSV/8588
9280235003	MW-4	EPA 8011	OEXT/11563	EPA 8011	GCSV/8588
9280235004	MW-5	EPA 8011	OEXT/11563	EPA 8011	GCSV/8588
9280235005	MW-6	EPA 8011	OEXT/11563	EPA 8011	GCSV/8588
9280235006	MW-7	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235007	MW-8	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235008	MW-9	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235009	MW-10	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235010	MW-11	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235011	MW-12	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235012	MW-13	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235013	MW-14	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235014	MW-15	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235015	MW-16	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235016	MW-17	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235017	MW-18	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235018	MW-19	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235019	TW-1	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235020	TW-2	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235021	TW-3	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235022	TW-4	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235023	TW-5	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235024	TW-6	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235025	TW-7	EPA 8011	OEXT/11564	EPA 8011	GCSV/8589
9280235026	TW-8	EPA 8011	OEXT/11570	EPA 8011	GCSV/8587
9280235049	WSW-1	EPA 8011	OEXT/11570	EPA 8011	GCSV/8587
9280235050	WSW-2	EPA 8011	OEXT/11570	EPA 8011	GCSV/8587
9280235051	WSW-3	EPA 8011	OEXT/11570	EPA 8011	GCSV/8587
9280235052	WSW-4	EPA 8011	OEXT/11570	EPA 8011	GCSV/8587
9280235053	WSW-5	EPA 8011	OEXT/11570	EPA 8011	GCSV/8587
9280235054	WSW-6	EPA 8011	OEXT/11570	EPA 8011	GCSV/8587
9280235055	WSW-7	EPA 8011	OEXT/11570	EPA 8011	GCSV/8587
9280235056	WSW-8	EPA 8011	OEXT/11570	EPA 8011	GCSV/8587
9280235057	WSW-9	EPA 8011	OEXT/11570	EPA 8011	GCSV/8587
9280235058	WSW-10	EPA 8011	OEXT/11570	EPA 8011	GCSV/8587
9280235059	WSW-11	EPA 8011	OEXT/11570	EPA 8011	GCSV/8587
9280235060	WSW-12	EPA 8011	OEXT/11570	EPA 8011	GCSV/8587
9280235061	WSW-13	EPA 8011	OEXT/11570	EPA 8011	GCSV/8587
9280235062	WSW-14	EPA 8011	OEXT/11570	EPA 8011	GCSV/8587
9280235063	WSW-15	EPA 8011	OEXT/11570	EPA 8011	GCSV/8587
9280235027	MW-6 LEAD	EPA 3010	MPRP/7274	EPA 6010	ICP/6710
9280235028	MW-7 LEAD	EPA 3010	MPRP/7274	EPA 6010	ICP/6710
9280235029	MW-8 LEAD	EPA 3010	MPRP/7274	EPA 6010	ICP/6710
9280235030	MW-9 LEAD	EPA 3010	MPRP/7274	EPA 6010	ICP/6710
9280235031	MW-10 LEAD	EPA 3010	MPRP/7274	EPA 6010	ICP/6710
9280235032	MW-11 LEAD	EPA 3010	MPRP/7274	EPA 6010	ICP/6710

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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9280235033	MW-12 LEAD	EPA 3010	MPRP/7274	EPA 6010	ICP/6710
9280235034	MW-13 LEAD	EPA 3010	MPRP/7274	EPA 6010	ICP/6710
9280235035	MW-14 LEAD	EPA 3010	MPRP/7274	EPA 6010	ICP/6710
9280235036	MW-15 LEAD	EPA 3010	MPRP/7274	EPA 6010	ICP/6710
9280235037	MW-16 LEAD	EPA 3010	MPRP/7274	EPA 6010	ICP/6710
9280235038	MW-17 LEAD	EPA 3010	MPRP/7274	EPA 6010	ICP/6710
9280235039	MW-18 LEAD	EPA 3010	MPRP/7274	EPA 6010	ICP/6710
9280235040	MW-19 LEAD	EPA 3010	MPRP/7274	EPA 6010	ICP/6710
9280235041	TW-1 LEAD	EPA 3010	MPRP/7274	EPA 6010	ICP/6710
9280235042	TW-2 LEAD	EPA 3010	MPRP/7274	EPA 6010	ICP/6710
9280235043	TW-3 LEAD	EPA 3010	MPRP/7274	EPA 6010	ICP/6710
9280235044	TW-4 LEAD	EPA 3010	MPRP/7281	EPA 6010	ICP/6718
9280235045	TW-5 LEAD	EPA 3010	MPRP/7281	EPA 6010	ICP/6718
9280235046	TW-6 LEAD	EPA 3010	MPRP/7281	EPA 6010	ICP/6718
9280235047	TW-7 LEAD	EPA 3010	MPRP/7281	EPA 6010	ICP/6718
9280235048	TW-8 LEAD	EPA 3010	MPRP/7281	EPA 6010	ICP/6718
9280235049	WSW-1	EPA 8260	MSV/12742		
9280235050	WSW-2	EPA 8260	MSV/12743		
9280235051	WSW-3	EPA 8260	MSV/12743		
9280235052	WSW-4	EPA 8260	MSV/12743		
9280235053	WSW-5	EPA 8260	MSV/12743		
9280235054	WSW-6	EPA 8260	MSV/12743		
9280235055	WSW-7	EPA 8260	MSV/12743		
9280235056	WSW-8	EPA 8260	MSV/12743		
9280235057	WSW-9	EPA 8260	MSV/12743		
9280235058	WSW-10	EPA 8260	MSV/12743		
9280235059	WSW-11	EPA 8260	MSV/12743		
9280235060	WSW-12	EPA 8260	MSV/12743		
9280235061	WSW-13	EPA 8260	MSV/12743		
9280235062	WSW-14	EPA 8260	MSV/12743		
9280235063	WSW-15	EPA 8260	MSV/12743		
9280235001	MW-2	EPA 8260	MSV/12789		
9280235002	MW-3	EPA 8260	MSV/12744		
9280235003	MW-4	EPA 8260	MSV/12744		
9280235004	MW-5	EPA 8260	MSV/12744		
9280235005	MW-6	EPA 8260	MSV/12744		
9280235006	MW-7	EPA 8260	MSV/12744		
9280235007	MW-8	EPA 8260	MSV/12744		
9280235008	MW-9	EPA 8260	MSV/12744		
9280235009	MW-10	EPA 8260	MSV/12744		
9280235010	MW-11	EPA 8260	MSV/12744		
9280235011	MW-12	EPA 8260	MSV/12744		
9280235012	MW-13	EPA 8260	MSV/12744		
9280235013	MW-14	EPA 8260	MSV/12744		
9280235014	MW-15	EPA 8260	MSV/12744		
9280235015	MW-16	EPA 8260	MSV/12753		

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 TRUCK STOP
Pace Project No.: 9280235

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9280235016	**MW-17**	EPA 8260	MSV/12753		
9280235017	**MW-18**	EPA 8260	MSV/12753		
9280235018	**MW-19**	EPA 8260	MSV/12753		
9280235019	**TW-1**	EPA 8260	MSV/12753		
9280235020	**TW-2**	EPA 8260	MSV/12753		
9280235021	**TW-3**	EPA 8260	MSV/12753		
9280235022	**TW-4**	EPA 8260	MSV/12850		
9280235023	**TW-5**	EPA 8260	MSV/12850		
9280235024	**TW-6**	EPA 8260	MSV/12850		
9280235025	**TW-7**	EPA 8260	MSV/12850		
9280235026	**TW-8**	EPA 8260	MSV/12850		

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Page: 1 of 6

1407681

Section A
Required Client Information:

Company: ECS
Address: 13504 S. Point Blvd. Charlotte, NC
Email To: cdupuis@ecsconsult.com
Phone: 704-583-2711 Fax:
Requested Due Date/TAT: Standard

Section B
Required Project Information:

Report To: Christine Dupuis
Copy To:
Purchase Order No.: 14-214210
Project Name: 378 Truck Stop
Project Number: 14-214210

Section C
Invoice Information:

Attention: Christina White
Company Name: ECS
Address: Agawam, MA
Pace Quote Reference:
Pace Project Manager: Kevin Herring
Pace Profile #: 2291-7,3

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER ________

Site Location STATE: SC

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 9280235

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N Analysis Test	8260 BTEX, MtN	1,2-DCA	8 Oxygenates	8011 EDB	Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-2	WT	G			10/19	12:10		6				X						X	X	X	X			001
2	MW-3	↓	↓			10/18	16:45		↓				X						↓	↓	↓	↓			002
3	MW-4					10/18	16:55						X												003
4	MW-5					10/18	17:05						X												004
5	MW-6					10/19	12:25						X												005
6	MW-6-Lead					10/18	16:35		1			X											X		027
7	MW-7					10/19	12:15		6				X						X	X	X	X			006
8	MW-7-Lead					10/18	16:15		1			X											X		028
9	MW-8					10/19	12:00		6				X						X	X	X	X			007
10	MW-8 Lead					10/18	15:35		1			X											X		029
11	MW-9					10/19	9:25		6				X						X	X	X	X			008
12	MW-9-Lead	↓	↓			10/18	13:50		1			X											X		030

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Please Include J-values	B. McNeill / ECS	10/19	19:45	[signature] / Pace	10/20	1220				
	[signature] / Pace	10/20	1420	Justin [signature] / Pace CH	10/20/10	1420	3.9	Y	n	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brentley McNeill

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/19/10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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Page: 2 of 6

1436225

Section A
Required Client Information:

- Company: ECS
- Address: 13504 S. Point Blvd. Charlotte, NC
- Email To: cdupuis@ecsconsult.com
- Phone: 704-583-2711 Fax:
- Requested Due Date/TAT: Standard

Section B
Required Project Information:

- Report To: Christine Dupuis
- Copy To:
- Purchase Order No.: 14-21410
- Project Name: 378 Truck Stop
- Project Number: 14-21410

Section C
Invoice Information:

- Attention: Christina White
- Company Name: ECS
- Address: Agawam, MA
- Pace Quote Reference:
- Pace Project Manager: Kevin Herring
- Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: SC

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 928835

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 BTEX, MtN	1,2-DCA	8 Oxygenates	8011 EDB	Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-10	WT	G			10/19	9:40		6				X						X	X	X	X			009
2	MW-10-Lead	↓	↓			10/18	14:25		1			X											X		031
3	MW-11					10/19	9:50		6				X						X	X	X	X			010
4	MW-11-Lead					10/18	16:05		1			X											X		032
5	MW-12					10/19	10:15		6				X						X	X	X	X			011
6	MW-12-Lead					10/18	15:10		1			X											X		033
7	MW-13					10/19	10:25		6				X						X	X	X	X			012
8	MW-13-Lead					10/18	15:30		1			X											X		034
9	MW-14					10/19	9:55		6				X						X	X	X	X			013
10	MW-14-Lead					10/18	16:10		1			X											X		035
11	MW-15					10/19	10:30		6				X						X	X	X	X			014
12	MW-15-Lead	↓	↓			10/18	15:45		1			X											X		036

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Include J-values	B. McNeill / ECS	10/19	19:45	[illegible] / Pace	10/20	1220				
	[illegible] / Pace	10/20	1420	Justin Moseley / Pace CH	10/20	1420	3.9	Y	n	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

- PRINT Name of SAMPLER: Brentley McNeill
- SIGNATURE of SAMPLER: [signature]
- DATE Signed (MM/DD/YY): 10/19/10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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Page: 3 of 6

1436224

Section A
Required Client Information:

Company:	ECS
Address:	13504 S. Point Blvd. Charlotte, NC
Email To:	cdupuis@ecsconsult.com
Phone:	704-583-2711
Fax:	
Requested Due Date/TAT:	Standard

Section B
Required Project Information:

Report To:	Christine Dupuis
Copy To:	
Purchase Order No.:	14-214210
Project Name:	378 Truck Stop
Project Number:	14-214210

Section C
Invoice Information:

Attention:	Christina White
Company Name:	ECS
Address:	Agawam, MA
Pace Quote Reference:	
Pace Project Manager:	Kevin Herring
Pace Profile #:	

REGULATORY AGENCY

- ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
- ☑ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: SC

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes
MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Tissue TS
Other OT

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 9280235

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N ↓ Analysis Test ↓	8260 BTEX, MTN	1,2-DCA	8 Oxygenates	8011 EDB	Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-16	WT	G			10/19	11:45		6				X						X	X	X				015
2	MW-16-Lead					10/18	14:45		1			X											X		037
3	MW-17					10/19	11:00		6				X						X	X	X	X			016
4	MW-17-Lead					10/18	13:00		1			X											X		038
5	MW-18					10/19	11:10		6				X						X	X	X	X			017
6	MW-18 Lead					10/18	15:10		1			X											X		39
7	MW-19					10/19	11:30		6				X						X	X	X	X			018
8	MW-19-Lead					10/18	14:00		1			X											X		40
9	TW-1					10/18	17:15		6				X						X	X	X	X			019
10	TW-1-Lead					10/18	12:10		1			X											X		41
11	TW-2					10/19	10:45		6				X						X	X	X	X			020
12	TW-2-Lead					10/18	12:05		1			X											X		42

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Include J-values	B. McNeill / ECS	10/19	19:45	[signature] / Pace	10/20	12:20				
	[signature] / Pace	10/20	1420	Justin Matthews / pace clt	10/20	1420	3.9	Y	n	Y

SAMPLE CONDITIONS

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brentley McNeill

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/19/10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 4 of 6

1436223

Section A Required Client Information:

Company:	ECS
Address:	13504 S. Point Blvd. Charlotte, NC
Email To:	cdupuis@ecsconsult.com
Phone:	704-583-2711
Fax:	
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Christine Dupuis
Copy To:	
Purchase Order No.:	14-214210
Project Name:	378 Truck Stop
Project Number:	14-214210

Section C Invoice Information:

Attention:	Christina White
Company Name:	ECS
Address:	Agawam, MA
Pace Quote Reference:	
Pace Project Manager:	Kevin Herring
Pace Profile #:	

REGULATORY AGENCY

- ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
- ☑ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 928235

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	TIME	COMPOSITE END/GRAB DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 BTEX, MTN	1,2-DCA	8 Oxygenates	8011 EDB	Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TW-3	WT	G			10/19	9:15		6				X						X	X	X	X			021
2	TW-3-Lead	↓	↓			10/18	13:05		1			X											X		043
3	TW-4					10/19	9:35		6				X						X	X	X	X			022
4	TW-4-Lead					10/18	14:00		1			X											X		044
5	TW-5					10/19	10:10		6				X						X	X	X	X			023
6	TW-5-Lead					10/18	14:50		1			X											X		045
7	TW-6					10/19	11:40		6				X						X	X	X	X			024
8	TW-6-Lead					10/18	14:25		1			X											X		046
9	TW-7					10/19	10:55		6				X						X	X	X	X			025
10	TW-7-Lead					10/18	12:50		1			X											X		047
11	TW-8					10/19	11:25		6				X						X	X	X	X			026
12	TW-8 Lead	↓	↓			10/18	13:40		1			X											X		048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Includ J-values	B. McNeill / ECS	10/19	19:45	[signature] / Pace	10/20	1220				
	[signature] / Pace	10/20	1420	Justin [signature] / pace clt	10/20	1420	3.9	Y	n	Y

SAMPLE CONDITIONS

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brentley McNeill

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 10/19/10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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Page: 5 of 6

1436216

Section A
Required Client Information:

Company:	ECS
Address:	13504 S. Point Blvd. Charlotte, NC
Email To:	cdupuis@ecsconsult.com
Phone:	704-583-2711
Fax:	
Requested Due Date/TAT:	Standard

Section B
Required Project Information:

Report To:	Christine Dupuis
Copy To:	
Purchase Order No.:	14-214210
Project Name:	378 Truck Stop
Project Number:	14-214210

Section C
Invoice Information:

Attention:	Christina White
Company Name:	ECS
Address:	Agawam, MA
Pace Quote Reference:	
Pace Project Manager:	Kevin Herring
Pace Profile #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
✓ UST | RCRA | OTHER ______

Site Location STATE: SC

Section D
Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N Analysis Test	8260 BTEX, MTN	1,2-DCA	8011 EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9280235
1	WSW-1	WT	G			10/19	14:05		6				X						X	X	X		049
2	WSW-2						13:55																050
3	WSW-3						13:00																051
4	WSW-4						12:45																052
5	WSW-5						13:45																053
6	WSW-6						13:30																054
7	WSW-7						14:15																055
8	WSW-8						14:30																056
9	~~WSW~~ WSW-9						14:40																057
10	WSW-10						14:50																058
11	WSW-11						15:00																059
12	WSW-12						15:05																060

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Include J-Values	B. McNeill / ECS	10/19	19:45	[signature] / Pace	10/20	1220				
	[signature] / Pace	10/20	1420	[signature] / Pace CH	10/20	1420	3.9	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brentley McNeill

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/19/10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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Page: 6 of 6

1436226

Section A
Required Client Information:

Company:	ECS
Address:	13504 S. Point Blvd. Charlotte, NC
Email To:	cdupuis@ecsconsult.com
Phone:	704-583-2711
Fax:	
Requested Due Date/TAT:	Standard

Section B
Required Project Information:

Report To:	Christine Dupuis
Copy To:	
Purchase Order No.:	14-214210
Project Name:	378 Truck Stop
Project Number:	14-214210

Section C
Invoice Information:

Attention:	Christina White
Company Name:	ECS
Address:	Agawam, MA
Pace Quote Reference:	
Pace Project Manager:	Kevin Herring
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER ____

Site Location STATE: SC

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 BTEX, M+N	1,2-DCA	8011 EDB										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9280235
1	WSW-13	WT	G			10/19	15:20		6				X						X	X	X											001
2	WSW-14	↓	↓			↓	15:30		↓				X						↓	↓	↓											002
3	WSW-15	↓	↓			↓	15:40		↓				X						↓	↓	↓											003
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Include J-Values	B. McNeill / ECS	10/19	19:45	[signature] / Pace	10/20	1220				
	[signature] / Pace	10/20	1420	Justin [illegible] / Pace CH	10/20/10	1420	3.9	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brentley McNeill

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 10/19/10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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Sample Condition Upon Receipt

Client Name: ECS Project # 9280235

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other________

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other________

Thermometer Used: IR Gun : T809 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: **Add / Subtract** ____0____C

Corrected Cooler Temp.: 3.9 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: JMM 10-20-10

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix:________				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13. MW-14 Lead has ph of 8 TW-2 Lead has ph of 12
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☑No	☐N/A	MW-16 Lead has ph of 8 TW-7 Lead has ph of 12
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		TW-8 Lead has ph of 5 TW-4 Lead has ph of 12 Initial when completed
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):________				

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:________ Date/Time:________

Comments/ Resolution: SAMPLES PRESERVED IN the lab.

SRF Review: Kltt Date: 10/20/10 **SRF Review:** Kltt Date: 10/20/10

Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-CHR-CS-003-rev.01

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Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 21, 2010

Ms. Christine Dupuis
Environmental Compliance Servi
13504 South Point Blvd
Charlotte, NC 28273

RE: Project: 378 TRUCK STOP
Pace Project No.: 9283482

Dear Ms. Dupuis:

Enclosed are the analytical results for sample(s) received by the laboratory on December 07, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project:	378 TRUCK STOP
Pace Project No.:	9283482

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Virginia Certification #: 00072
West Virginia Certification #: 356

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SAMPLE SUMMARY

Project: 378 TRUCK STOP
Pace Project No.: 9283482

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9283482001	**MW-20**	Water	12/06/10 15:20	12/07/10 13:52
9283482002	**MW-21**	Water	12/06/10 15:02	12/07/10 13:52
9283482003	**MW-22**	Water	12/06/10 14:50	12/07/10 13:52
9283482004	**MW-23**	Water	12/06/10 14:35	12/07/10 13:52
9283482005	**MW-24**	Water	12/06/10 14:20	12/07/10 13:52
9283482006	**MW-25**	Water	12/06/10 14:30	12/07/10 13:52
9283482007	**MW-26**	Water	12/06/10 14:05	12/07/10 13:52
9283482008	**MW-27**	Water	12/06/10 15:00	12/07/10 13:52
9283482009	**MW-28**	Water	12/06/10 15:30	12/07/10 13:52
9283482010	**TW-9**	Water	12/06/10 13:55	12/07/10 13:52
9283482011	**TW-10**	Water	12/02/10 10:00	12/07/10 13:52
9283482012	**MW-20-LEAD**	Water	12/06/10 11:12	12/07/10 13:52
9283482013	**MW-21-LEAD**	Water	12/06/10 11:21	12/07/10 13:52
9283482014	**MW-22-LEAD**	Water	12/06/10 11:45	12/07/10 13:52
9283482015	**MW-23-LEAD**	Water	12/06/10 11:55	12/07/10 13:52
9283482016	**MW-24-LEAD**	Water	12/06/10 12:43	12/07/10 13:52
9283482017	**MW-25-LEAD**	Water	12/06/10 12:30	12/07/10 13:52
9283482018	**MW-26-LEAD**	Water	12/06/10 12:57	12/07/10 13:52
9283482019	**MW-27-LEAD**	Water	12/06/10 11:33	12/07/10 13:52
9283482020	**MW-28-LEAD**	Water	12/06/10 11:00	12/07/10 13:52
9283482021	**TW-9-LEAD**	Water	12/06/10 13:10	12/07/10 13:52

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP
Pace Project No.: 9283482

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9283482001	**MW-20**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9283482002	**MW-21**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9283482003	**MW-22**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9283482004	**MW-23**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9283482005	**MW-24**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9283482006	**MW-25**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9283482007	**MW-26**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9283482008	**MW-27**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9283482009	**MW-28**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9283482010	**TW-9**	EPA 8011	RES	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9283482011	**TW-10**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9283482012	**MW-20-LEAD**	EPA 6010	SHB	1	PASI-A
9283482013	**MW-21-LEAD**	EPA 6010	SHB	1	PASI-A
9283482014	**MW-22-LEAD**	EPA 6010	SHB	1	PASI-A
9283482015	**MW-23-LEAD**	EPA 6010	SHB	1	PASI-A
9283482016	**MW-24-LEAD**	EPA 6010	SHB	1	PASI-A
9283482017	**MW-25-LEAD**	EPA 6010	SHB	1	PASI-A
9283482018	**MW-26-LEAD**	EPA 6010	SHB	1	PASI-A
9283482019	**MW-27-LEAD**	EPA 6010	SHB	1	PASI-A
9283482020	**MW-28-LEAD**	EPA 6010	SHB	1	PASI-A
9283482021	**TW-9-LEAD**	EPA 6010	SHB	1	PASI-A

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Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9283482

Sample: MW-20 **Lab ID: 9283482001** Collected: 12/06/10 15:20 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/15/10 17:46	12/16/10 08:28	106-93-4	
1-Chloro-2-bromopropane (S)	105	%	60-140		1	12/15/10 17:46	12/16/10 08:28	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/17/10 21:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/17/10 21:44	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/17/10 21:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/17/10 21:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/17/10 21:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/17/10 21:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/17/10 21:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/17/10 21:44	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/17/10 21:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/17/10 21:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/17/10 21:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/17/10 21:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/17/10 21:44	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/17/10 21:44	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/17/10 21:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/17/10 21:44	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		1		12/17/10 21:44	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/17/10 21:44	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		12/17/10 21:44	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		12/17/10 21:44	17060-07-0	

Sample: MW-21 **Lab ID: 9283482002** Collected: 12/06/10 15:02 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/15/10 17:47	12/16/10 08:44	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	12/15/10 17:47	12/16/10 08:44	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/17/10 22:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/17/10 22:03	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/17/10 22:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/17/10 22:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/17/10 22:03	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/17/10 22:03	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/17/10 22:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/17/10 22:03	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/17/10 22:03	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/17/10 22:03	100-41-4	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9283482

Sample: MW-21 **Lab ID: 9283482002** Collected: 12/06/10 15:02 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/17/10 22:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/17/10 22:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/17/10 22:03	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/17/10 22:03	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/17/10 22:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/17/10 22:03	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		12/17/10 22:03	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/17/10 22:03	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		12/17/10 22:03	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		12/17/10 22:03	17060-07-0	

Sample: MW-22 **Lab ID: 9283482003** Collected: 12/06/10 14:50 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**122**	ug/L	4.0	4.0	200	12/15/10 17:47	12/16/10 19:31	106-93-4	
1-Chloro-2-bromopropane (S)	0	%	60-140		200	12/15/10 17:47	12/16/10 19:31	301-79-56	S4
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**9730**	ug/L	2000	1240	20		12/18/10 00:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	90.0	20		12/18/10 00:49	994-05-8	
Benzene	**11900**	ug/L	1250	300	250		12/18/10 16:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	960	20		12/18/10 00:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	540	20		12/18/10 00:49	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	180	20		12/18/10 00:49	762-75-4	
1,2-Dichloroethane	**463**	ug/L	100	26.0	20		12/18/10 00:49	107-06-2	
Diisopropyl ether	ND	ug/L	100	54.0	20		12/18/10 00:49	108-20-3	
Ethanol	ND	ug/L	4000	3400	20		12/18/10 00:49	64-17-5	
Ethylbenzene	**1800**	ug/L	100	22.0	20		12/18/10 00:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	92.0	20		12/18/10 00:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	40.0	20		12/18/10 00:49	1634-04-4	
Naphthalene	**522**	ug/L	100	58.0	20		12/18/10 00:49	91-20-3	
Toluene	**29500**	ug/L	1250	450	250		12/18/10 16:27	108-88-3	
m&p-Xylene	**7710**	ug/L	200	54.0	20		12/18/10 00:49	179601-23-1	
o-Xylene	**3690**	ug/L	100	34.0	20		12/18/10 00:49	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		20		12/18/10 00:49	1868-53-7	
Toluene-d8 (S)	102	%	70-130		20		12/18/10 00:49	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		20		12/18/10 00:49	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		20		12/18/10 00:49	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9283482

Sample: MW-23 **Lab ID: 9283482004** Collected: 12/06/10 14:35 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/15/10 17:47	12/16/10 09:18	106-93-4	
1-Chloro-2-bromopropane (S)	105	%	60-140		1	12/15/10 17:47	12/16/10 09:18	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/17/10 22:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/17/10 22:21	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/17/10 22:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/17/10 22:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/17/10 22:21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/17/10 22:21	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/17/10 22:21	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/17/10 22:21	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/17/10 22:21	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/17/10 22:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/17/10 22:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/17/10 22:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/17/10 22:21	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/17/10 22:21	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/17/10 22:21	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/17/10 22:21	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		12/17/10 22:21	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		12/17/10 22:21	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		12/17/10 22:21	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/17/10 22:21	17060-07-0	

Sample: MW-24 **Lab ID: 9283482005** Collected: 12/06/10 14:20 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/15/10 17:47	12/16/10 09:34	106-93-4	
1-Chloro-2-bromopropane (S)	104	%	60-140		1	12/15/10 17:47	12/16/10 09:34	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/17/10 22:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/17/10 22:40	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/17/10 22:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/17/10 22:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/17/10 22:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/17/10 22:40	762-75-4	
1,2-Dichloroethane	**6.7**	ug/L	5.0	1.3	1		12/17/10 22:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/17/10 22:40	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/17/10 22:40	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/17/10 22:40	100-41-4	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9283482

Sample: MW-24 **Lab ID: 9283482005** Collected: 12/06/10 14:20 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/17/10 22:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/17/10 22:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/17/10 22:40	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/17/10 22:40	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/17/10 22:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/17/10 22:40	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		1		12/17/10 22:40	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/17/10 22:40	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		12/17/10 22:40	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		12/17/10 22:40	17060-07-0	

Sample: MW-25 **Lab ID: 9283482006** Collected: 12/06/10 14:30 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/16/10 17:04	12/16/10 21:02	106-93-4	
1-Chloro-2-bromopropane (S)	100	%	60-140		1	12/16/10 17:04	12/16/10 21:02	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/17/10 22:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/17/10 22:58	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/17/10 22:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/17/10 22:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/17/10 22:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/17/10 22:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/17/10 22:58	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/17/10 22:58	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/17/10 22:58	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/17/10 22:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/17/10 22:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/17/10 22:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/17/10 22:58	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/17/10 22:58	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/17/10 22:58	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/17/10 22:58	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		12/17/10 22:58	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/17/10 22:58	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		12/17/10 22:58	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/17/10 22:58	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9283482

Sample: MW-26 **Lab ID: 9283482007** Collected: 12/06/10 14:05 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/16/10 17:05	12/16/10 21:57	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	12/16/10 17:05	12/16/10 21:57	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/17/10 23:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/17/10 23:16	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/17/10 23:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/17/10 23:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/17/10 23:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/17/10 23:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/17/10 23:16	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/17/10 23:16	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/17/10 23:16	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/17/10 23:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/17/10 23:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/17/10 23:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/17/10 23:16	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/17/10 23:16	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/17/10 23:16	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/17/10 23:16	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		12/17/10 23:16	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/17/10 23:16	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		12/17/10 23:16	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		12/17/10 23:16	17060-07-0	

Sample: MW-27 **Lab ID: 9283482008** Collected: 12/06/10 15:00 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/16/10 17:05	12/16/10 22:33	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	12/16/10 17:05	12/16/10 22:33	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/17/10 23:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/17/10 23:35	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/17/10 23:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/17/10 23:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/17/10 23:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/17/10 23:35	762-75-4	
1,2-Dichloroethane	**6.4**	ug/L	5.0	1.3	1		12/17/10 23:35	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/17/10 23:35	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/17/10 23:35	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/17/10 23:35	100-41-4	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9283482

Sample: MW-27 **Lab ID: 9283482008** Collected: 12/06/10 15:00 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/17/10 23:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/17/10 23:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/17/10 23:35	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/17/10 23:35	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/17/10 23:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/17/10 23:35	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		12/17/10 23:35	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/17/10 23:35	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		12/17/10 23:35	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		12/17/10 23:35	17060-07-0	

Sample: MW-28 **Lab ID: 9283482009** Collected: 12/06/10 15:30 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/16/10 17:05	12/16/10 22:51	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	12/16/10 17:05	12/16/10 22:51	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/17/10 23:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/17/10 23:53	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/17/10 23:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/17/10 23:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/17/10 23:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/17/10 23:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/17/10 23:53	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/17/10 23:53	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/17/10 23:53	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/17/10 23:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/17/10 23:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/17/10 23:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/17/10 23:53	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/17/10 23:53	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/17/10 23:53	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/17/10 23:53	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		12/17/10 23:53	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/17/10 23:53	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		12/17/10 23:53	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		12/17/10 23:53	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9283482

Sample: TW-9 **Lab ID: 9283482010** Collected: 12/06/10 13:55 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/16/10 17:05	12/16/10 23:10	106-93-4	
1-Chloro-2-bromopropane (S)	76	%	60-140		1	12/16/10 17:05	12/16/10 23:10	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/18/10 00:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/18/10 00:12	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/18/10 00:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/18/10 00:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/18/10 00:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/18/10 00:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/18/10 00:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/18/10 00:12	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/18/10 00:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/18/10 00:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/18/10 00:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/18/10 00:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.9	1		12/18/10 00:12	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/18/10 00:12	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/18/10 00:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/18/10 00:12	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		12/18/10 00:12	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/18/10 00:12	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		12/18/10 00:12	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		12/18/10 00:12	17060-07-0	

Sample: TW-10 **Lab ID: 9283482011** Collected: 12/02/10 10:00 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	12/15/10 17:41	12/16/10 03:57	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	12/15/10 17:41	12/16/10 03:57	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/16/10 19:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/16/10 19:21	994-05-8	
Benzene	ND	ug/L	5.0	1.2	1		12/16/10 19:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/16/10 19:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/16/10 19:21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/16/10 19:21	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.3	1		12/16/10 19:21	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/16/10 19:21	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/16/10 19:21	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.1	1		12/16/10 19:21	100-41-4	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9283482

Sample: TW-10 **Lab ID: 9283482011** Collected: 12/02/10 10:00 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/16/10 19:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	2.0	1		12/16/10 19:21	1634-04-4	
Naphthalene	**2.9J**	ug/L	5.0	2.9	1		12/16/10 19:21	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		12/16/10 19:21	108-88-3	
m&p-Xylene	ND	ug/L	10.0	2.7	1		12/16/10 19:21	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.7	1		12/16/10 19:21	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		12/16/10 19:21	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		12/16/10 19:21	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		12/16/10 19:21	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		12/16/10 19:21	17060-07-0	

Sample: MW-20-LEAD **Lab ID: 9283482012** Collected: 12/06/10 11:12 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/15/10 10:00	12/15/10 22:19	7439-92-1	

Sample: MW-21-LEAD **Lab ID: 9283482013** Collected: 12/06/10 11:21 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/15/10 10:00	12/15/10 22:22	7439-92-1	

Sample: MW-22-LEAD **Lab ID: 9283482014** Collected: 12/06/10 11:45 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**15.3**	ug/L	5.0	4.0	1	12/15/10 10:00	12/15/10 22:25	7439-92-1	

Sample: MW-23-LEAD **Lab ID: 9283482015** Collected: 12/06/10 11:55 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/15/10 10:00	12/15/10 22:29	7439-92-1	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9283482

Sample: MW-24-LEAD **Lab ID: 9283482016** Collected: 12/06/10 12:43 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/15/10 10:00	12/15/10 22:32	7439-92-1	

Sample: MW-25-LEAD **Lab ID: 9283482017** Collected: 12/06/10 12:30 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/15/10 10:00	12/15/10 22:36	7439-92-1	

Sample: MW-26-LEAD **Lab ID: 9283482018** Collected: 12/06/10 12:57 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/15/10 10:00	12/15/10 22:39	7439-92-1	

Sample: MW-27-LEAD **Lab ID: 9283482019** Collected: 12/06/10 11:33 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/15/10 10:00	12/15/10 22:43	7439-92-1	

Sample: MW-28-LEAD **Lab ID: 9283482020** Collected: 12/06/10 11:00 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/15/10 10:00	12/15/10 22:46	7439-92-1	

Sample: TW-9-LEAD **Lab ID: 9283482021** Collected: 12/06/10 13:10 Received: 12/07/10 13:52 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	ND	ug/L	5.0	4.0	1	12/15/10 10:00	12/15/10 22:59	7439-92-1	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9283482

QC Batch: OEXT/12173 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9283482011

METHOD BLANK: 541104 Matrix: Water
Associated Lab Samples: 9283482011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	12/16/10 00:03	
1-Chloro-2-bromopropane (S)	%	117	60-140	12/16/10 00:03	

LABORATORY CONTROL SAMPLE & LCSD: 541105 541106

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.29	0.32	0.32	112	110	60-140	0	20	
1-Chloro-2-bromopropane (S)	%				93	95	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 541107 541108

Parameter	Units	9283377003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.29	.29	0.32	0.32	110	110	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						110	108	60-140			

SAMPLE DUPLICATE: 541109

Parameter	Units	9283377005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	108	103	5		

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9283482

QC Batch: OEXT/12174 | Analysis Method: EPA 8011
QC Batch Method: EPA 8011 | Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9283482001, 9283482002, 9283482003, 9283482004, 9283482005

METHOD BLANK: 541111 | Matrix: Water
Associated Lab Samples: 9283482001, 9283482002, 9283482003, 9283482004, 9283482005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	12/16/10 02:39	
1-Chloro-2-bromopropane (S)	%	106	60-140	12/16/10 02:39	

LABORATORY CONTROL SAMPLE & LCSD: 541112 | 541113

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.32	0.34	116	120	60-140	4	20	
1-Chloro-2-bromopropane (S)	%				104	106	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 541114 | 541115

Parameter	Units	9283906001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.29	.29	0.34	0.35	118	120	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						105	106	60-140			

SAMPLE DUPLICATE: 541116

Parameter	Units	9283906002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.28	10	20	
1-Chloro-2-bromopropane (S)	%	110	88	22		

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9283482

QC Batch: OEXT/12183 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9283482006, 9283482007, 9283482008, 9283482009, 9283482010

METHOD BLANK: 541770 Matrix: Water
Associated Lab Samples: 9283482006, 9283482007, 9283482008, 9283482009, 9283482010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	12/16/10 20:07	
1-Chloro-2-bromopropane (S)	%	99	60-140	12/16/10 20:07	

LABORATORY CONTROL SAMPLE & LCSD: 541771 541772

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.30	0.31	108	108	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				99	99	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 541773 541774

Parameter	Units	9283482006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.31	0.31	110	110	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						102	101	60-140			

SAMPLE DUPLICATE: 541775

Parameter	Units	9283482007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	102	102	1		

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(704)875-9092

QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9283482

QC Batch: MPRP/7579 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET
Associated Lab Samples: 9283482012, 9283482013, 9283482014, 9283482015, 9283482016, 9283482017, 9283482018, 9283482019, 9283482020, 9283482021

METHOD BLANK: 540570 — Matrix: Water
Associated Lab Samples: 9283482012, 9283482013, 9283482014, 9283482015, 9283482016, 9283482017, 9283482018, 9283482019, 9283482020, 9283482021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	12/15/10 21:11	

LABORATORY CONTROL SAMPLE: 540571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	456	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 540573 540574

Parameter	Units	9283377003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	ND	500	500	448	448	90	90	75-125	0	20	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9283482

QC Batch: MSV/13445 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9283482011

METHOD BLANK: 541052 Matrix: Water
Associated Lab Samples: 9283482011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/16/10 12:34	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/16/10 12:34	
Benzene	ug/L	ND	5.0	12/16/10 12:34	
Diisopropyl ether	ug/L	ND	5.0	12/16/10 12:34	
Ethanol	ug/L	ND	200	12/16/10 12:34	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/16/10 12:34	
Ethylbenzene	ug/L	ND	5.0	12/16/10 12:34	
m&p-Xylene	ug/L	ND	10.0	12/16/10 12:34	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/16/10 12:34	
Naphthalene	ug/L	ND	5.0	12/16/10 12:34	
o-Xylene	ug/L	ND	5.0	12/16/10 12:34	
tert-Amyl Alcohol	ug/L	ND	100	12/16/10 12:34	
tert-Amylmethyl ether	ug/L	ND	10.0	12/16/10 12:34	
tert-Butyl Alcohol	ug/L	ND	100	12/16/10 12:34	
tert-Butyl Formate	ug/L	ND	50.0	12/16/10 12:34	
Toluene	ug/L	ND	5.0	12/16/10 12:34	
1,2-Dichloroethane-d4 (S)	%	99	70-130	12/16/10 12:34	
4-Bromofluorobenzene (S)	%	100	70-130	12/16/10 12:34	
Dibromofluoromethane (S)	%	102	70-130	12/16/10 12:34	
Toluene-d8 (S)	%	102	70-130	12/16/10 12:34	

LABORATORY CONTROL SAMPLE: 541053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	59.6	119	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1190	119	70-130	
Benzene	ug/L	50	63.4	127	70-130	
Diisopropyl ether	ug/L	50	62.3	125	70-130	
Ethanol	ug/L	2000	2530	127	70-130	
Ethyl-tert-butyl ether	ug/L	100	124	124	70-130	
Ethylbenzene	ug/L	50	59.8	120	70-130	
m&p-Xylene	ug/L	100	119	119	70-130	
Methyl-tert-butyl ether	ug/L	50	61.1	122	70-130	
Naphthalene	ug/L	50	61.4	123	70-130	
o-Xylene	ug/L	50	59.7	119	70-130	
tert-Amyl Alcohol	ug/L	1000	1270	127	70-130	
tert-Amylmethyl ether	ug/L	100	124	124	70-130	
tert-Butyl Alcohol	ug/L	500	469	94	70-130	
tert-Butyl Formate	ug/L	400	412	103	70-130	
Toluene	ug/L	50	59.6	119	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9283482

LABORATORY CONTROL SAMPLE: 541053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 541054 541055

Parameter	Units	9283898008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	41.0	41.5	82	83	70-130	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	837	880	84	88	70-130	5	30	
Benzene	ug/L	ND	50	50	57.6	54.2	115	108	70-130	6	30	
Diisopropyl ether	ug/L	ND	50	50	43.6	45.1	87	90	70-130	3	30	
Ethanol	ug/L	ND	2000	2000	1610	1780	81	89	70-130	10	30	
Ethyl-tert-butyl ether	ug/L	ND	100	100	84.9	86.4	85	86	70-130	2	30	
Ethylbenzene	ug/L	ND	50	50	50.8	49.6	102	99	70-130	2	30	
m&p-Xylene	ug/L	ND	100	100	116	103	116	103	70-130	12	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	42.4	42.4	85	85	70-130	0	30	
Naphthalene	ug/L	ND	50	50	141	65.2	283	130	70-130	74	30	C8,M0, R1
o-Xylene	ug/L	ND	50	50	59.3	52.8	119	106	70-130	12	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	1090	888	109	89	70-130	21	30	
tert-Amylmethyl ether	ug/L	ND	100	100	89.0	91.0	89	91	70-130	2	30	
tert-Butyl Alcohol	ug/L	ND	500	500	258	245	52	49	70-130	5	30	M0
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	50	50	76.9	57.5	154	115	70-130	29	30	M0
1,2-Dichloroethane-d4 (S)	%						75	75	70-130			
4-Bromofluorobenzene (S)	%						105	107	70-130			
Dibromofluoromethane (S)	%						93	91	70-130			
Toluene-d8 (S)	%						98	97	70-130			

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9283482

QC Batch: MSV/13481 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9283482001, 9283482002, 9283482003, 9283482004, 9283482005, 9283482006, 9283482007, 9283482008, 9283482009, 9283482010

METHOD BLANK: 542628 | Matrix: Water
Associated Lab Samples: 9283482001, 9283482002, 9283482003, 9283482004, 9283482005, 9283482006, 9283482007, 9283482008, 9283482009, 9283482010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/17/10 18:39	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/17/10 18:39	
Benzene	ug/L	ND	5.0	12/17/10 18:39	
Diisopropyl ether	ug/L	ND	5.0	12/17/10 18:39	
Ethanol	ug/L	ND	200	12/17/10 18:39	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/17/10 18:39	
Ethylbenzene	ug/L	ND	5.0	12/17/10 18:39	
m&p-Xylene	ug/L	ND	10.0	12/17/10 18:39	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/17/10 18:39	
Naphthalene	ug/L	ND	5.0	12/17/10 18:39	
o-Xylene	ug/L	ND	5.0	12/17/10 18:39	
tert-Amyl Alcohol	ug/L	ND	100	12/17/10 18:39	
tert-Amylmethyl ether	ug/L	ND	10.0	12/17/10 18:39	
tert-Butyl Alcohol	ug/L	ND	100	12/17/10 18:39	
tert-Butyl Formate	ug/L	ND	50.0	12/17/10 18:39	
Toluene	ug/L	ND	5.0	12/17/10 18:39	
1,2-Dichloroethane-d4 (S)	%	105	70-130	12/17/10 18:39	
4-Bromofluorobenzene (S)	%	96	70-130	12/17/10 18:39	
Dibromofluoromethane (S)	%	100	70-130	12/17/10 18:39	
Toluene-d8 (S)	%	99	70-130	12/17/10 18:39	

LABORATORY CONTROL SAMPLE: 542629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.1	90	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	859	86	70-130	
Benzene	ug/L	50	45.1	90	70-130	
Diisopropyl ether	ug/L	50	41.9	84	70-130	
Ethanol	ug/L	2000	1770	88	70-130	
Ethyl-tert-butyl ether	ug/L	100	83.1	83	70-130	
Ethylbenzene	ug/L	50	45.8	92	70-130	
m&p-Xylene	ug/L	100	90.5	91	70-130	
Methyl-tert-butyl ether	ug/L	50	46.0	92	70-130	
Naphthalene	ug/L	50	47.9	96	70-130	
o-Xylene	ug/L	50	45.5	91	70-130	
tert-Amyl Alcohol	ug/L	1000	799	80	70-130	
tert-Amylmethyl ether	ug/L	100	85.2	85	70-130	
tert-Butyl Alcohol	ug/L	500	460	92	70-130	
tert-Butyl Formate	ug/L	400	326	81	70-130	
Toluene	ug/L	50	45.5	91	70-130	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9283482

LABORATORY CONTROL SAMPLE: 542629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 542630 542631

Parameter	Units	9283906008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	38.3	47.3	77	95	70-130	21	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	588	823	59	82	70-130	33	30	M0,R1
Benzene	ug/L	ND	50	50	38.0	48.6	76	97	70-130	24	30	
Diisopropyl ether	ug/L	ND	50	50	35.1	46.4	70	93	70-130	27	30	
Ethanol	ug/L	ND	2000	2000	1410	2090	71	104	70-130	39	30	R1
Ethyl-tert-butyl ether	ug/L	ND	100	100	68.1	90.4	68	90	70-130	28	30	M0
Ethylbenzene	ug/L	ND	50	50	36.9	48.1	74	96	70-130	26	30	
m&p-Xylene	ug/L	ND	100	100	73.9	95.3	73	95	70-130	25	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	35.8	48.9	72	98	70-130	31	30	R1
Naphthalene	ug/L	ND	50	50	36.3	48.7	73	97	70-130	29	30	
o-Xylene	ug/L	ND	50	50	36.2	46.5	72	93	70-130	25	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	639	838	64	84	70-130	27	30	M0
tert-Amylmethyl ether	ug/L	ND	100	100	66.3	87.0	66	87	70-130	27	30	M0
tert-Butyl Alcohol	ug/L	ND	500	500	241	393	48	79	70-130	48	30	M0,R1
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	50	50	38.4	48.1	76	95	70-130	22	30	
1,2-Dichloroethane-d4 (S)	%						100	101	70-130			
4-Bromofluorobenzene (S)	%						96	96	70-130			
Dibromofluoromethane (S)	%						105	103	70-130			
Toluene-d8 (S)	%						100	100	70-130			

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QUALIFIERS

Project: 378 TRUCK STOP
Pace Project No.: 9283482

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

C8	Result may be biased high due to carryover from previously analyzed sample.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 TRUCK STOP
Pace Project No.: 9283482

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9283482001	**MW-20**	EPA 8011	OEXT/12174	EPA 8011	GCSV/8927
9283482002	**MW-21**	EPA 8011	OEXT/12174	EPA 8011	GCSV/8927
9283482003	**MW-22**	EPA 8011	OEXT/12174	EPA 8011	GCSV/8927
9283482004	**MW-23**	EPA 8011	OEXT/12174	EPA 8011	GCSV/8927
9283482005	**MW-24**	EPA 8011	OEXT/12174	EPA 8011	GCSV/8927
9283482006	**MW-25**	EPA 8011	OEXT/12183	EPA 8011	GCSV/8932
9283482007	**MW-26**	EPA 8011	OEXT/12183	EPA 8011	GCSV/8932
9283482008	**MW-27**	EPA 8011	OEXT/12183	EPA 8011	GCSV/8932
9283482009	**MW-28**	EPA 8011	OEXT/12183	EPA 8011	GCSV/8932
9283482010	**TW-9**	EPA 8011	OEXT/12183	EPA 8011	GCSV/8932
9283482011	**TW-10**	EPA 8011	OEXT/12173	EPA 8011	GCSV/8926
9283482012	**MW-20-LEAD**	EPA 3010	MPRP/7579	EPA 6010	ICP/6995
9283482013	**MW-21-LEAD**	EPA 3010	MPRP/7579	EPA 6010	ICP/6995
9283482014	**MW-22-LEAD**	EPA 3010	MPRP/7579	EPA 6010	ICP/6995
9283482015	**MW-23-LEAD**	EPA 3010	MPRP/7579	EPA 6010	ICP/6995
9283482016	**MW-24-LEAD**	EPA 3010	MPRP/7579	EPA 6010	ICP/6995
9283482017	**MW-25-LEAD**	EPA 3010	MPRP/7579	EPA 6010	ICP/6995
9283482018	**MW-26-LEAD**	EPA 3010	MPRP/7579	EPA 6010	ICP/6995
9283482019	**MW-27-LEAD**	EPA 3010	MPRP/7579	EPA 6010	ICP/6995
9283482020	**MW-28-LEAD**	EPA 3010	MPRP/7579	EPA 6010	ICP/6995
9283482021	**TW-9-LEAD**	EPA 3010	MPRP/7579	EPA 6010	ICP/6995
9283482001	**MW-20**	EPA 8260	MSV/13481		
9283482002	**MW-21**	EPA 8260	MSV/13481		
9283482003	**MW-22**	EPA 8260	MSV/13481		
9283482004	**MW-23**	EPA 8260	MSV/13481		
9283482005	**MW-24**	EPA 8260	MSV/13481		
9283482006	**MW-25**	EPA 8260	MSV/13481		
9283482007	**MW-26**	EPA 8260	MSV/13481		
9283482008	**MW-27**	EPA 8260	MSV/13481		
9283482009	**MW-28**	EPA 8260	MSV/13481		
9283482010	**TW-9**	EPA 8260	MSV/13481		
9283482011	**TW-10**	EPA 8260	MSV/13445		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

1408249

Section A
Required Client Information:

Company:	ECS
Address:	13504 S. Point Blvd. Charlotte, NC
Email To:	cdupuis@ecsconsult.com
Phone:	704-583-2711
Fax:	
Requested Due Date/TAT:	Standard

Section B
Required Project Information:

Report To:	Christine Dupuis
Copy To:	
Purchase Order No.:	14-214210
Project Name:	378 Truck Stop
Project Number:	14-214210

Section C
Invoice Information:

Attention:	Christina White
Company Name:	ECS
Address:	Agawam, MA
Pace Quote Reference:	
Pace Project Manager:	Kevin Herring
Pace Profile #:	2291-7

REGULATORY AGENCY

- NPDES
- GROUND WATER
- DRINKING WATER
- ✓ UST
- RCRA
- OTHER ______

Site Location STATE: SC

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes
MATRIX / CODE

Matrix	Code
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 928348

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: 8260 BTEX, M+N	1,2-DCA	8 Oxygenates	8011 EDB	Lead					Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-20	WT	G			12/6	15:20		6				X					X	X	X	X							001
2	MW-21						15:05																					002
3	MW-22						14:50																					003
4	MW-23						14:35																					004
5	MW-24						14:20																					005
6	MW-25						14:30																					006
7	MW-26						14:05																					007
8	MW-27						15:00																					008
9	MW-28						15:30																					009
10	TW-9						13:55																					010
11	TW-10					12/2	10:00		6				X															011
12	MW-20-Lead					12/6	11:12		1			X										X						012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Please Report J-Values	B. McNeill / ECS	12/6	18:30	Pace CLT	12-7-10	12:22				
	Pace CLT	12-7-10	13:52		12/7/10	13:52	1.2	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brentley McNeill

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 12/6/10

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

1407278

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	ECS	Report To:	Christin Dupuis	Attention:	Christina White
Address:	13504 S. Point Blvd. Charlotte, NC	Copy To:		Company Name:	ECS
Email To:	cdupuis@ecsconsult.com	Purchase Order No.:	14-214210	Address:	Agawam, MA
Phone:	704-583-2711	Project Name:	378 Truck Stop	Pace Quote Reference:	
Fax:				Pace Project Manager:	Kevin Herring
Requested Due Date/TAT:	Standard	Project Number:	14-214210	Pace Profile #:	

REGULATORY AGENCY: NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☑ RCRA ☐ OTHER ☐

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 928482

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-21-Lead					12/6	11:21		1			X						X		013
2	MW-22-Lead						11:45													014
3	MW-23-Lead						11:55													015
4	MW-24-Lead						12:43													016
5	MW-25-Lead						12:30													017
6	MW-26-Lead						12:57													018
7	MW-27-Lead						11:33													019
8	MW-28-Lead						11:00													020
9	TW-9-Lead						13:10													021
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Please Report J-Values	B. McNeill / ECS	12/6	18:30	[signature] Pace CLT	12/7/10	12:27				
	[signature] Pace CLT	12/7/10	13:52	KMT Pace	12/7/10	13:52	1.0	Y	Ø	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brentley McNeill

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/6/10

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: FCI Project # 9283482

Where Received: ☒ Huntersville ☐ Asheville ☐ Eden

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other________

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other________

Thermometer Used: IR Gun : T809 **Type of Ice:** Wet Blue None ☒ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 1.9 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: WMM 12/7/10

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11.
Sample Labels match COC:	☒Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix:________				
All containers needing preservation have been checked.	☒Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes	☐No	☐N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed
Samples checked for dechlorination:	☐Yes	☐No	☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	15.
Trip Blank Present:	☐Yes	☐No	☒N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased):________				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: ________________ Date/Time: ________

Comments/ Resolution: ________________

SCURF Review: KLH **Date:** 12/7/10 **SRF Review:** KLH **Date:** 12/8/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-CHR-CS-003-rev.01

Pace Analytical Services, Inc.
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(704)875-9092

December 21, 2010

Ms. Christine Dupuis
Environmental Compliance Servi
13504 South Point Blvd
Charlotte, NC 28273

RE: Project: 378 TRUCK STOP
Pace Project No.: 9283766

Dear Ms. Dupuis:

Enclosed are the analytical results for sample(s) received by the laboratory on December 09, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project:	378 TRUCK STOP
Pace Project No.:	9283766

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

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SAMPLE SUMMARY

Project: 378 TRUCK STOP
Pace Project No.: 9283766

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9283766001	**WSW-2**	Water	12/08/10 12:45	12/09/10 15:45
9283766002	**WSW-3**	Water	12/08/10 10:35	12/09/10 15:45
9283766003	**WSW-4**	Water	12/08/10 10:50	12/09/10 15:45
9283766004	**WSW-6**	Water	12/08/10 11:10	12/09/10 15:45
9283766005	**WSW-7**	Water	12/08/10 11:20	12/09/10 15:45
9283766006	**WSW-9**	Water	12/08/10 11:39	12/09/10 15:45
9283766007	**WSW-10**	Water	12/08/10 11:50	12/09/10 15:45
9283766008	**WSW-11**	Water	12/08/10 12:05	12/09/10 15:45
9283766009	**WSW-12**	Water	12/08/10 12:20	12/09/10 15:45
9283766010	**WSW-15**	Water	12/08/10 12:30	12/09/10 15:45

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SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP
Pace Project No.: 9283766

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9283766001	**WSW-2**	EPA 8260	KJM	12	PASI-C
9283766002	**WSW-3**	EPA 8260	KJM	12	PASI-C
9283766003	**WSW-4**	EPA 8260	KJM	12	PASI-C
9283766004	**WSW-6**	EPA 8260	KJM	12	PASI-C
9283766005	**WSW-7**	EPA 8260	KJM	12	PASI-C
9283766006	**WSW-9**	EPA 8260	KJM	12	PASI-C
9283766007	**WSW-10**	EPA 8260	KJM	12	PASI-C
9283766008	**WSW-11**	EPA 8260	KJM	12	PASI-C
9283766009	**WSW-12**	EPA 8260	KJM	12	PASI-C
9283766010	**WSW-15**	EPA 8260	KJM	12	PASI-C

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9283766

Sample: WSW-2 **Lab ID: 9283766001** Collected: 12/08/10 12:45 Received: 12/09/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/18/10 00:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/18/10 00:30	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/18/10 00:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/18/10 00:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/18/10 00:30	762-75-4	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/18/10 00:30	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/18/10 00:30	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/18/10 00:30	637-92-3	
Dibromofluoromethane (S)	103	%	70-130		1		12/18/10 00:30	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/18/10 00:30	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		12/18/10 00:30	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		12/18/10 00:30	17060-07-0	

Sample: WSW-3 **Lab ID: 9283766002** Collected: 12/08/10 10:35 Received: 12/09/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/20/10 13:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/20/10 13:14	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/20/10 13:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/20/10 13:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/20/10 13:14	762-75-4	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/20/10 13:14	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/20/10 13:14	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/20/10 13:14	637-92-3	
Dibromofluoromethane (S)	102	%	70-130		1		12/20/10 13:14	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/20/10 13:14	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		12/20/10 13:14	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		12/20/10 13:14	17060-07-0	

Sample: WSW-4 **Lab ID: 9283766003** Collected: 12/08/10 10:50 Received: 12/09/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/20/10 13:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/20/10 13:32	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/20/10 13:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/20/10 13:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/20/10 13:32	762-75-4	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/20/10 13:32	108-20-3	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9283766

Sample: WSW-4 **Lab ID: 9283766003** Collected: 12/08/10 10:50 Received: 12/09/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethanol	ND	ug/L	200	170	1		12/20/10 13:32	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/20/10 13:32	637-92-3	
Dibromofluoromethane (S)	103	%	70-130		1		12/20/10 13:32	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/20/10 13:32	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		12/20/10 13:32	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		12/20/10 13:32	17060-07-0	

Sample: WSW-6 **Lab ID: 9283766004** Collected: 12/08/10 11:10 Received: 12/09/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/20/10 13:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/20/10 13:51	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/20/10 13:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/20/10 13:51	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/20/10 13:51	762-75-4	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/20/10 13:51	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/20/10 13:51	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/20/10 13:51	637-92-3	
Dibromofluoromethane (S)	103	%	70-130		1		12/20/10 13:51	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/20/10 13:51	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		12/20/10 13:51	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		12/20/10 13:51	17060-07-0	

Sample: WSW-7 **Lab ID: 9283766005** Collected: 12/08/10 11:20 Received: 12/09/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/20/10 14:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/20/10 14:09	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/20/10 14:09	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/20/10 14:09	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/20/10 14:09	762-75-4	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/20/10 14:09	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/20/10 14:09	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/20/10 14:09	637-92-3	
Dibromofluoromethane (S)	104	%	70-130		1		12/20/10 14:09	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/20/10 14:09	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		12/20/10 14:09	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		12/20/10 14:09	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9283766

Sample: WSW-9 **Lab ID: 9283766006** Collected: 12/08/10 11:39 Received: 12/09/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/20/10 14:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/20/10 14:28	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/20/10 14:28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/20/10 14:28	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/20/10 14:28	762-75-4	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/20/10 14:28	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/20/10 14:28	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/20/10 14:28	637-92-3	
Dibromofluoromethane (S)	103	%	70-130		1		12/20/10 14:28	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/20/10 14:28	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		12/20/10 14:28	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		12/20/10 14:28	17060-07-0	

Sample: WSW-10 **Lab ID: 9283766007** Collected: 12/08/10 11:50 Received: 12/09/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/20/10 14:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/20/10 14:46	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/20/10 14:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/20/10 14:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/20/10 14:46	762-75-4	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/20/10 14:46	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/20/10 14:46	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/20/10 14:46	637-92-3	
Dibromofluoromethane (S)	103	%	70-130		1		12/20/10 14:46	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/20/10 14:46	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		12/20/10 14:46	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		12/20/10 14:46	17060-07-0	

Sample: WSW-11 **Lab ID: 9283766008** Collected: 12/08/10 12:05 Received: 12/09/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/20/10 15:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/20/10 15:05	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/20/10 15:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/20/10 15:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/20/10 15:05	762-75-4	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/20/10 15:05	108-20-3	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9283766

Sample: WSW-11 **Lab ID: 9283766008** Collected: 12/08/10 12:05 Received: 12/09/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethanol	ND	ug/L	200	170	1		12/20/10 15:05	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/20/10 15:05	637-92-3	
Dibromofluoromethane (S)	103	%	70-130		1		12/20/10 15:05	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/20/10 15:05	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		12/20/10 15:05	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		12/20/10 15:05	17060-07-0	

Sample: WSW-12 **Lab ID: 9283766009** Collected: 12/08/10 12:20 Received: 12/09/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/20/10 15:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/20/10 15:23	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/20/10 15:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/20/10 15:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/20/10 15:23	762-75-4	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/20/10 15:23	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/20/10 15:23	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/20/10 15:23	637-92-3	
Dibromofluoromethane (S)	104	%	70-130		1		12/20/10 15:23	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/20/10 15:23	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		12/20/10 15:23	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		12/20/10 15:23	17060-07-0	

Sample: WSW-15 **Lab ID: 9283766010** Collected: 12/08/10 12:30 Received: 12/09/10 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	62.0	1		12/20/10 15:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	4.5	1		12/20/10 15:42	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	48.0	1		12/20/10 15:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.0	1		12/20/10 15:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	9.0	1		12/20/10 15:42	762-75-4	
Diisopropyl ether	ND	ug/L	5.0	2.7	1		12/20/10 15:42	108-20-3	
Ethanol	ND	ug/L	200	170	1		12/20/10 15:42	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	4.6	1		12/20/10 15:42	637-92-3	
Dibromofluoromethane (S)	104	%	70-130		1		12/20/10 15:42	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/20/10 15:42	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		12/20/10 15:42	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-130		1		12/20/10 15:42	17060-07-0	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9283766

QC Batch: MSV/13481 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9283766001

METHOD BLANK: 542628 Matrix: Water
Associated Lab Samples: 9283766001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/17/10 18:39	
Diisopropyl ether	ug/L	ND	5.0	12/17/10 18:39	
Ethanol	ug/L	ND	200	12/17/10 18:39	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/17/10 18:39	
tert-Amyl Alcohol	ug/L	ND	100	12/17/10 18:39	
tert-Amylmethyl ether	ug/L	ND	10.0	12/17/10 18:39	
tert-Butyl Alcohol	ug/L	ND	100	12/17/10 18:39	
tert-Butyl Formate	ug/L	ND	50.0	12/17/10 18:39	
1,2-Dichloroethane-d4 (S)	%	105	70-130	12/17/10 18:39	
4-Bromofluorobenzene (S)	%	96	70-130	12/17/10 18:39	
Dibromofluoromethane (S)	%	100	70-130	12/17/10 18:39	
Toluene-d8 (S)	%	99	70-130	12/17/10 18:39	

LABORATORY CONTROL SAMPLE: 542629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	859	86	70-130	
Diisopropyl ether	ug/L	50	41.9	84	70-130	
Ethanol	ug/L	2000	1770	88	70-130	
Ethyl-tert-butyl ether	ug/L	100	83.1	83	70-130	
tert-Amyl Alcohol	ug/L	1000	799	80	70-130	
tert-Amylmethyl ether	ug/L	100	85.2	85	70-130	
tert-Butyl Alcohol	ug/L	500	460	92	70-130	
tert-Butyl Formate	ug/L	400	326	81	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 542630 542631

Parameter	Units	9283906008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	588	823	59	82	70-130	33	30	M0,R1
Diisopropyl ether	ug/L	ND	50	50	35.1	46.4	70	93	70-130	27	30	
Ethanol	ug/L	ND	2000	2000	1410	2090	71	104	70-130	39	30	R1
Ethyl-tert-butyl ether	ug/L	ND	100	100	68.1	90.4	68	90	70-130	28	30	M0
tert-Amyl Alcohol	ug/L	ND	1000	1000	639	838	64	84	70-130	27	30	M0
tert-Amylmethyl ether	ug/L	ND	100	100	66.3	87.0	66	87	70-130	27	30	M0
tert-Butyl Alcohol	ug/L	ND	500	500	241	393	48	79	70-130	48	30	M0,R1

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9283766

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 542630 542631

Parameter	Units	9283906008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130		30	P5
1,2-Dichloroethane-d4 (S)	%						100	101	70-130			
4-Bromofluorobenzene (S)	%						96	96	70-130			
Dibromofluoromethane (S)	%						105	103	70-130			
Toluene-d8 (S)	%						100	100	70-130			

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9283766

QC Batch: MSV/13491 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9283766002, 9283766003, 9283766004, 9283766005, 9283766006, 9283766007, 9283766008, 9283766009, 9283766010

METHOD BLANK: 543171 Matrix: Water
Associated Lab Samples: 9283766002, 9283766003, 9283766004, 9283766005, 9283766006, 9283766007, 9283766008, 9283766009, 9283766010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/20/10 12:00	
Diisopropyl ether	ug/L	ND	5.0	12/20/10 12:00	
Ethanol	ug/L	ND	200	12/20/10 12:00	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/20/10 12:00	
tert-Amyl Alcohol	ug/L	ND	100	12/20/10 12:00	
tert-Amylmethyl ether	ug/L	ND	10.0	12/20/10 12:00	
tert-Butyl Alcohol	ug/L	ND	100	12/20/10 12:00	
tert-Butyl Formate	ug/L	ND	50.0	12/20/10 12:00	
1,2-Dichloroethane-d4 (S)	%	105	70-130	12/20/10 12:00	
4-Bromofluorobenzene (S)	%	96	70-130	12/20/10 12:00	
Dibromofluoromethane (S)	%	101	70-130	12/20/10 12:00	
Toluene-d8 (S)	%	99	70-130	12/20/10 12:00	

LABORATORY CONTROL SAMPLE: 543172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1110	111	70-130	
Diisopropyl ether	ug/L	50	52.8	106	70-130	
Ethanol	ug/L	2000	2350	118	70-130	
Ethyl-tert-butyl ether	ug/L	100	106	106	70-130	
tert-Amyl Alcohol	ug/L	1000	1040	104	70-130	
tert-Amylmethyl ether	ug/L	100	106	106	70-130	
tert-Butyl Alcohol	ug/L	500	711	142	70-130	L3
tert-Butyl Formate	ug/L	400	403	101	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 543173 543174

Parameter	Units	9283766002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	855	1100	86	110	70-130	25	30	
Diisopropyl ether	ug/L	ND	50	50	42.7	52.2	85	104	70-130	20	30	
Ethanol	ug/L	ND	2000	2000	1700	2410	85	121	70-130	34	30	R1
Ethyl-tert-butyl ether	ug/L	ND	100	100	84.9	104	85	104	70-130	20	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	843	1080	84	108	70-130	24	30	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9283766

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 543173 543174

Parameter	Units	9283766002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
tert-Amylmethyl ether	ug/L	ND	100	100	83.3	101	83	101	70-130	19	30	
tert-Butyl Alcohol	ug/L	ND	500	500	387	506	77	101	70-130	27	30	
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130		30	P5
1,2-Dichloroethane-d4 (S)	%						106	100	70-130			
4-Bromofluorobenzene (S)	%						100	100	70-130			
Dibromofluoromethane (S)	%						103	104	70-130			
Toluene-d8 (S)	%						101	99	70-130			

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QUALIFIERS

Project: 378 TRUCK STOP
Pace Project No.: 9283766

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 TRUCK STOP
Pace Project No.: 9283766

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9283766001	**WSW-2**	EPA 8260	MSV/13481		
9283766002	**WSW-3**	EPA 8260	MSV/13491		
9283766003	**WSW-4**	EPA 8260	MSV/13491		
9283766004	**WSW-6**	EPA 8260	MSV/13491		
9283766005	**WSW-7**	EPA 8260	MSV/13491		
9283766006	**WSW-9**	EPA 8260	MSV/13491		
9283766007	**WSW-10**	EPA 8260	MSV/13491		
9283766008	**WSW-11**	EPA 8260	MSV/13491		
9283766009	**WSW-12**	EPA 8260	MSV/13491		
9283766010	**WSW-15**	EPA 8260	MSV/13491		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1178153

Section A
Required Client Information:

Company: Environmental Compliance Services
Address: 13504 S. Point Blvd Unit F
Charlotte, NC 28273
Email To: CDupuis@ecsconsult.com
Phone: 704 583 2711 Fax:
Requested Due Date/TAT: Std

Section B
Required Project Information:

Report To: Christine Dupuis
Copy To:
Purchase Order No.:
Project Name: 378 truck stop
Project Number: 14-214210

Section C
Invoice Information:

Attention: Christina White
Company Name: ECS
Address: 588 Silver St, Agawam MA 01001
Pace Quote Reference:
Pace Project Manager: Kevin Herring
Pace Profile #: 2291-7

REGULATORY AGENCY

NPDES / GROUND WATER / DRINKING WATER / ✓ UST / RCRA / OTHER ______

Site Location STATE: SC

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes	MATRIX / CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

COLLECTED: COMPOSITE START (DATE, TIME); COMPOSITE END/GRAB (DATE, TIME)

Preservatives: Unpreserved, H_2SO_4, HNO_3, HCl, NaOH, $Na_2S_2O_3$, Methanol, Other

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	Comp. Start DATE	Comp. Start TIME	Comp. End/Grab DATE	Comp. End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: 8-oxygenates	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9283766
1	WSW-2	WT	G			12/8	12:45		3				X					X		001
2	WSW-3						10:35													002
3	WSW-4						10:50													003
4	WSW-6						11:10													004
5	WSW-7						11:20													005
6	WSW-9						11:35													006
7	WSW-10						11:50													007
8	WSW-11						12:05													008
9	WSW-12						12:20													009
10	WSW-15						12:30													010
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Report "J" values	Ryan Byas / ECS	12/8/10	15:45	Robert G. Anyh	12/9/10	1400				
	[illegible signature] / Pace	12/9/10	1545	[illegible signature]	12/10	15:48	1.1	Y		Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ryan Byas

SIGNATURE of SAMPLER: Ryan Byas DATE Signed (MM/DD/YY): 12/08/10

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Environmental compliance Project # 9283766

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other________

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other________

Thermometer Used: IR Gun : T809 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 1.1 C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: mm 12/9/10

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix:________				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):________				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: ____________________ Date/Time: ____________

Comments/ Resolution: ____

SCURF Review: Klt **Date:** 12/9/10 **SRF Review:** Klt **Date:** 12/10/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-CHR-CS-003-rev.01

APPENDIX F

Survey Map

MONITORING WELL LOCATION SURVEY
FOR
ENVIRONMENTAL COMPLIANCE SERVICES, INC.
LOCATED AT THE INTERSECTION OF
FAULKNER MOUNTAIN ROAD & U.S. HWY. 378
EDGEFIELD COUNTY, SOUTH CAROLINA

TOPOGRAPHIC MAPS
ROUTE SURVEYS
SUBDIVISIONS
SITE PLANS

PHOTO CONTROL SURVEYS
CONSTRUCTION SURVEYS
BOUNDARY SURVEYS
PHYSICAL SURVEYS

PROJECT No: MOJ11.DWG
DATE 11/09/2010
SCALE 1"=250'
DES.
DR. JWS
CKD. KCH

No.	DATE	REVISION
1	[illegible]	[illegible]

SHEET NO.

S1

APPENDIX G

Slug Test Data

SUMMARY of SLUG TEST ANALYSES

SOUTH CAROLINA
Department of Health and Environmental Control (DHEC)

Site Data

SITE ID #: 07960 COUNTY: Edgefield

FACILITY NAME: 378 Truck Stop

Slug Data

See
Appendix G Table ____ Figure ____ for a list of all data measurements.
(water level logs, etc.) (Complete as appropriate).

Water Level Recovery Data was measured by InSitu LevelTroll
(Hermit Data Logger, Manually with Water Level Indicator, etc.) (List Method)

Complete the following table for each well tested.
COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED.

Slug Test Conducted in well(s) Number	**MW-12**	**MW-17**		
Initial Rise/Drawdown in well (feet)	1.636	2.356		
Radius of Well Casing (feet)	0.08	0.08		
Effective Radius of Well (feet)	0.26	0.26		
Static Saturated Aquifer Thickness (feet)	10.37	11.26		
Length of Well Screen (feet)	15	15		
Static Height of Water Column in Well (feet)	0.49	0.35		

Calculations

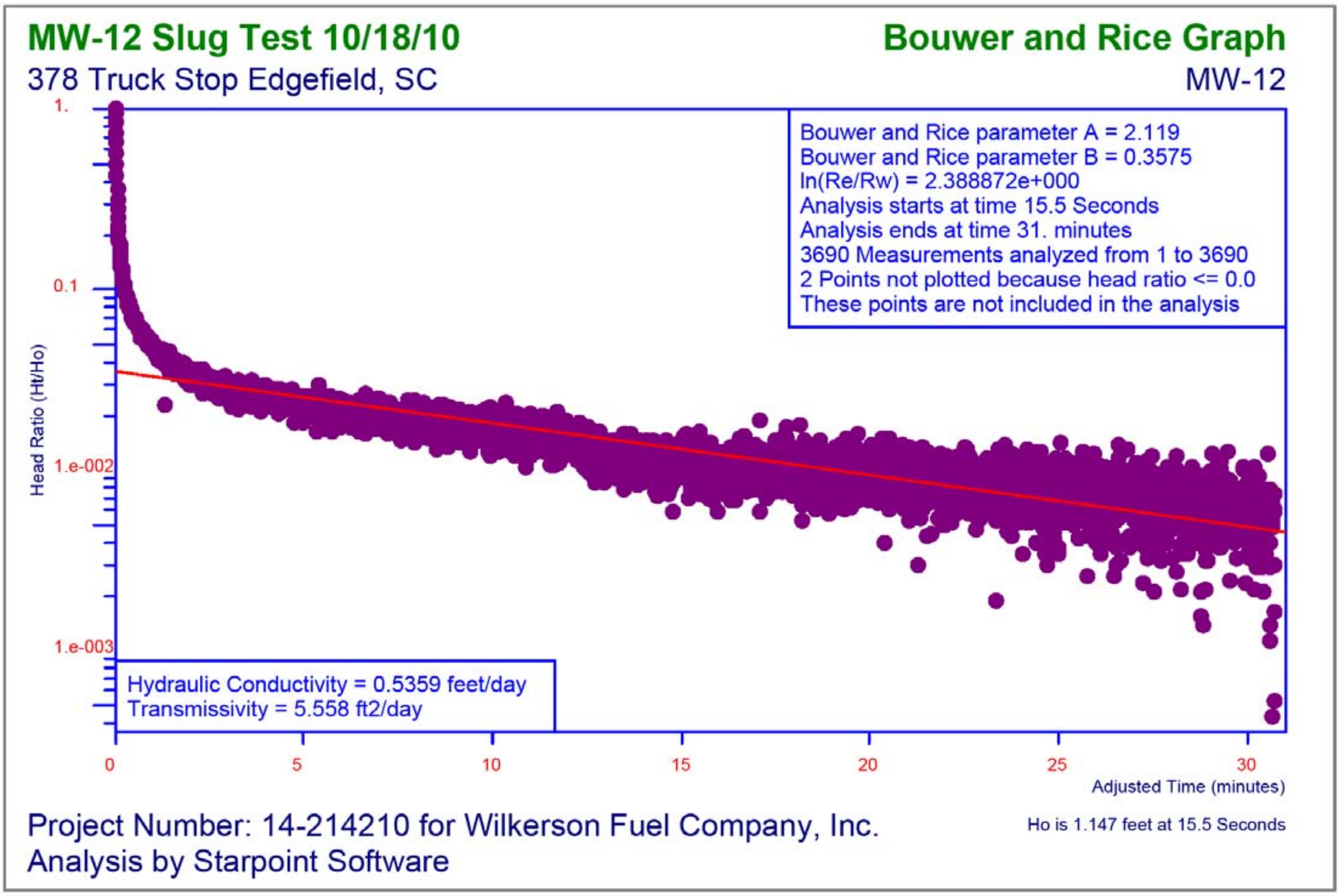
See
Appendix G Table ____ Figure ____ for calculations. (Complete as appropriate).
The method for aquifer calculations was Bouwer-Rice (I.e. Bouwer-Rice, Cooper, etc.)
Calculated values by well were as follows:

Slug Test Conducted in well(s) number	**MW-12**	**MW-17**		
Hydraulic Conductivity (ft/day)	0.5359	0.2019		

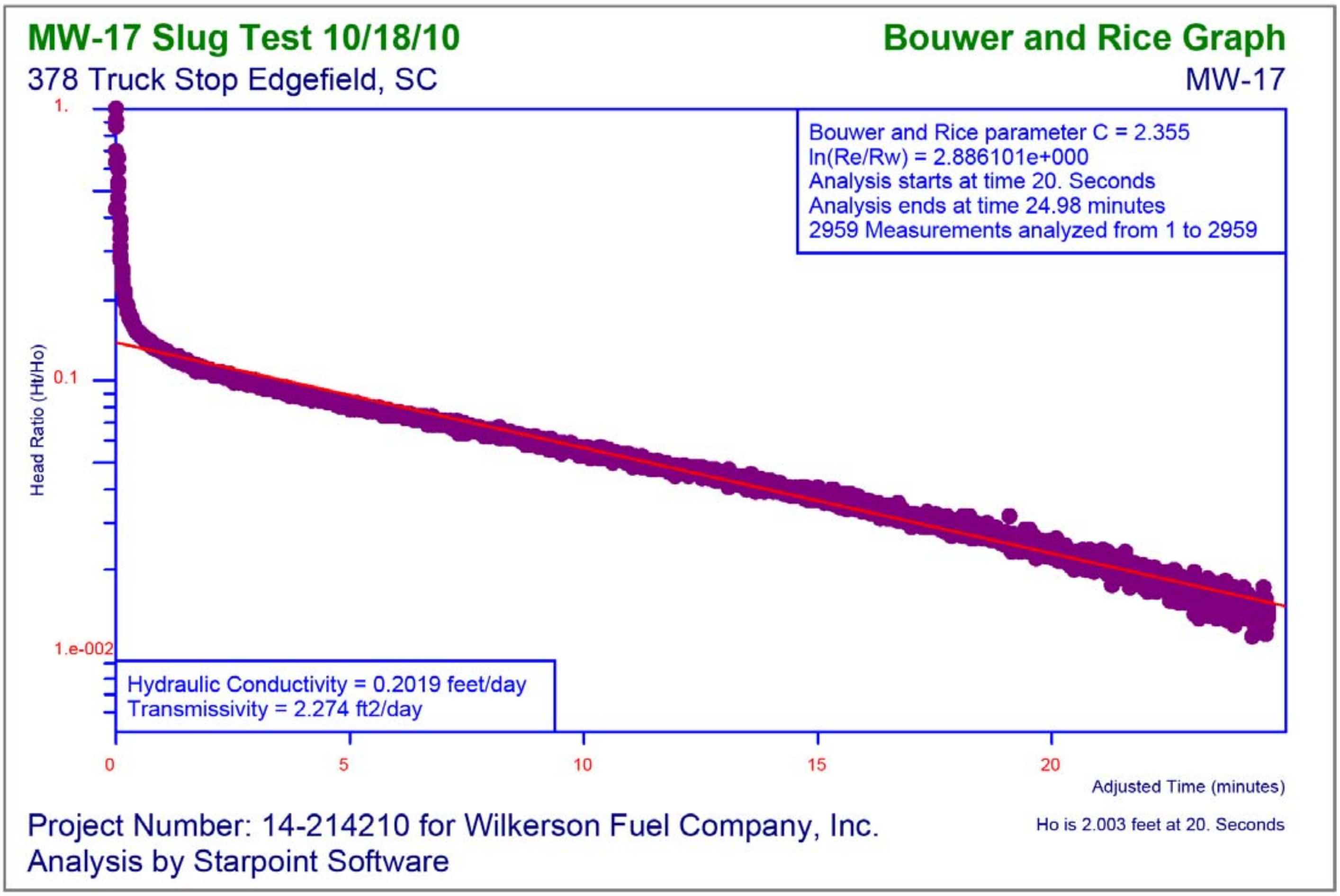
Thickness of the aquifer used to calculate MW-12 hydraulic conductivity was 10.37 feet.
The aquifer is ____ confined ____ semi-confined X water table.

Thickness of the aquifer used to calculate MW-17 hydraulic conductivity was 11.26 feet.
The aquifer is ____ confined ____ semi-confined X water table.

The estimated seepage velocity is 22.01 & 8.29 feet/year based on
a hydraulic conductivity of 0.5359 ft/day & 0.2019 ft/day a hydraulic gradient of 0.009 ft/ft and
a porosity of 8 percent for a SILT soil (list type).



MW-12 Slug Test 10/18/10
Bouwer and Rice Graph
378 Truck Stop Edgefield, SC
MW-12
Bouwer and Rice parameter A = 2.119
Bouwer and Rice parameter B = 0.3575
ln(Re/Rw) = 2.388872e+000
Analysis starts at time 15.5 Seconds
Analysis ends at time 31. minutes
3690 Measurements analyzed from 1 to 3690
2 Points not plotted because head ratio <= 0.0
These points are not included in the analysis
Hydraulic Conductivity = 0.5359 feet/day
Transmissivity = 5.558 ft2/day
Head Ratio (Ht/Ho)
1.
0.1
1.e-002
1.e-003
0
5
10
15
20
25
30
Adjusted Time (minutes)
Ho is 1.147 feet at 15.5 Seconds
Project Number: 14-214210 for Wilkerson Fuel Company, Inc.
Analysis by Starpoint Software


MW-17 Slug Test 10/18/10
Bouwer and Rice Graph
378 Truck Stop Edgefield, SC
MW-17
Bouwer and Rice parameter C = 2.355
ln(Re/Rw) = 2.886101e+000
Analysis starts at time 20. Seconds
Analysis ends at time 24.98 minutes
2959 Measurements analyzed from 1 to 2959
1.
0.1
1.e-002
Head Ratio (Ht/Ho)
Hydraulic Conductivity = 0.2019 feet/day
Transmissivity = 2.274 ft2/day
0
5
10
15
20
Adjusted Time (minutes)
Project Number: 14-214210 for Wilkerson Fuel Company, Inc.
Analysis by Starpoint Software
Ho is 2.003 feet at 20. Seconds

MW-12 Slug Test

Site Name:	378 Truck Stop
Location:	Edgefield, SC
Test Date:	10/18/10
Client:	Wilkerson Fuel Company, Inc.
Project Number:	14-214210
Import File:	F:\Projects\14-214210 378 Truck Stop\Slug Test Data\MW-12 slug test data.txt

Well Label:	MW-12
Aquifer Thickness:	10.37 feet
Screen Length:	15. feet
Casing Radius:	1. Inches
Effective Radius:	3.125 Inches
Static Water Level:	0.4888 feet
Water Table to Screen Bottom:	5.37 feet
Anisotropy Ratio:	1.
Time Adjustment:	15.5 Seconds

Test starts with trial 0
There are 3690 time and drawdown measurements
Maximum head is 1.147 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	15.5	0.	1.636	1.147	1.
2	16.	0.5	1.573	1.084	0.9451
3	16.5	1.	1.472	0.9832	0.857
4	17.	1.5	1.35	0.8612	0.7507
5	17.5	2.	1.251	0.7622	0.6644
6	18.	2.5	1.155	0.6662	0.5807
7	18.5	3.	1.063	0.5742	0.5005
8	19.	3.5	0.9891	0.5003	0.4361
9	19.5	4.	0.9106	0.4218	0.3677
10	20.	4.5	0.8486	0.3598	0.3136
11	20.5	5.	0.8169	0.3281	0.286
12	21.	5.5	0.7786	0.2898	0.2526
13	21.5	6.	0.7497	0.2609	0.2274
14	22.	6.5	0.7292	0.2404	0.2096
15	22.5	7.	0.7078	0.219	0.1909
16	23.	7.5	0.6963	0.2075	0.1809
17	23.5	8.	0.6849	0.1961	0.1709
18	24.	8.5	0.6773	0.1885	0.1643
19	24.5	9.	0.6659	0.1771	0.1544
20	25.	9.5	0.6569	0.1681	0.1465
21	25.5	10.	0.6488	0.16	0.1395
22	26.	10.5	0.6453	0.1565	0.1364
23	26.5	11.	0.6393	0.1505	0.1312
24	27.	11.5	0.6332	0.1444	0.1259
25	27.5	12.	0.6346	0.1458	0.1271
26	28.	12.5	0.6226	0.1338	0.1166
27	28.5	13.	0.6214	0.1326	0.1156
28	29.	13.5	0.6168	0.128	0.1116
29	29.5	14.	0.6145	0.1257	0.1096
30	30.	14.5	0.6109	0.1221	0.1064
31	30.5	15.	0.6087	0.1199	0.1045
32	31.	15.5	0.6039	0.1151	0.1003
33	31.5	16.	0.6054	0.1166	0.1016
34	32.	16.5	0.6024	0.1136	9.902e-002
35	32.5	17.	0.6006	0.1118	9.745e-002
36	33.	17.5	0.5979	0.1091	9.51e-002

37	33.5	18.	0.5951	0.1063	9.266e-002
38	34.	18.5	0.5922	0.1034	9.013e-002
39	34.5	19.	0.5919	0.1031	8.987e-002
40	35.	19.5	0.5902	0.1014	8.839e-002
41	35.5	20.	0.5898	0.101	8.804e-002
42	36.	20.5	0.588	9.92e-002	8.647e-002
43	36.5	21.	0.5854	9.66e-002	8.421e-002
44	37.	21.5	0.5872	9.84e-002	8.577e-002
45	37.5	22.	0.5872	9.84e-002	8.577e-002
46	38.	22.5	0.5854	9.66e-002	8.421e-002
47	38.5	23.	0.5863	9.75e-002	8.499e-002
48	39.	23.5	0.5794	9.06e-002	7.897e-002
49	39.5	24.	0.5791	9.03e-002	7.871e-002
50	40.	24.5	0.5778	8.9e-002	7.758e-002
51	40.5	25.	0.5755	8.67e-002	7.558e-002
52	41.	25.5	0.58	9.12e-002	7.95e-002
53	41.5	26.	0.5767	8.79e-002	7.662e-002
54	42.	26.5	0.5734	8.46e-002	7.374e-002
55	42.5	27.	0.5684	7.96e-002	6.939e-002
56	43.	27.5	0.5775	8.87e-002	7.732e-002
57	43.5	28.	0.5691	8.03e-002	7.e-002
58	44.	28.5	0.5704	8.16e-002	7.113e-002
59	44.5	29.	0.5682	7.94e-002	6.921e-002
60	45.	29.5	0.5675	7.87e-002	6.86e-002
61	45.5	30.	0.5654	7.66e-002	6.677e-002
62	46.	30.5	0.5695	8.07e-002	7.035e-002
63	46.5	31.	0.5657	7.69e-002	6.703e-002
64	47.	31.5	0.5647	7.59e-002	6.616e-002
65	47.5	32.	0.5669	7.81e-002	6.808e-002
66	48.	32.5	0.5692	8.04e-002	7.008e-002
67	48.5	33.	0.5659	7.71e-002	6.721e-002
68	49.	33.5	0.5647	7.59e-002	6.616e-002
69	49.5	34.	0.5633	7.45e-002	6.494e-002
70	50.	34.5	0.562	7.32e-002	6.381e-002
71	50.5	35.	0.5641	7.53e-002	6.564e-002
72	51.	35.5	0.5621	7.33e-002	6.389e-002
73	51.5	36.	0.5603	7.15e-002	6.233e-002
74	52.	36.5	0.5617	7.29e-002	6.355e-002
75	52.5	37.	0.5605	7.17e-002	6.25e-002
76	53.	37.5	0.5595	7.07e-002	6.163e-002
77	53.5	38.	0.5605	7.17e-002	6.25e-002
78	54.	38.5	0.56	7.12e-002	6.206e-002
79	54.5	39.	0.5595	7.07e-002	6.163e-002
80	55.	39.5	0.5558	6.7e-002	5.84e-002
81	55.5	40.	0.5514	6.26e-002	5.457e-002
82	56.	40.5	0.5552	6.64e-002	5.788e-002
83	56.5	41.	0.5578	6.9e-002	6.015e-002
84	57.	41.5	0.5537	6.49e-002	5.657e-002
85	57.5	42.	0.5536	6.48e-002	5.649e-002
86	58.	42.5	0.5517	6.29e-002	5.483e-002
87	58.5	43.	0.5518	6.3e-002	5.492e-002
88	59.	43.5	0.5527	6.39e-002	5.57e-002
89	59.5	44.	0.5521	6.33e-002	5.518e-002
90	60.	44.5	0.5576	6.88e-002	5.997e-002
91	60.5	45.	0.5539	6.51e-002	5.675e-002
92	61.	45.5	0.5537	6.49e-002	5.657e-002
93	61.5	46.	0.5512	6.24e-002	5.439e-002
94	62.	46.5	0.5503	6.15e-002	5.361e-002
95	62.5	47.	0.5528	6.4e-002	5.579e-002
96	63.	47.5	0.5512	6.24e-002	5.439e-002

97	63.5	48.	0.5509	6.21e-002	5.413e-002
98	64.	48.5	0.5513	6.25e-002	5.448e-002
99	64.5	49.	0.5494	6.06e-002	5.282e-002
100	65.	49.5	0.5545	6.57e-002	5.727e-002
101	65.5	50.	0.5516	6.28e-002	5.474e-002
102	66.	50.5	0.5521	6.33e-002	5.518e-002
103	66.5	51.	0.5462	5.74e-002	5.003e-002
104	67.	51.5	0.5522	6.34e-002	5.526e-002
105	67.5	52.	0.5531	6.43e-002	5.605e-002
106	68.	52.5	0.5456	5.68e-002	4.951e-002
107	68.5	53.	0.5471	5.83e-002	5.082e-002
108	69.	53.5	0.5452	5.64e-002	4.916e-002
109	69.5	54.	0.5483	5.95e-002	5.187e-002
110	70.	54.5	0.5459	5.71e-002	4.977e-002
111	70.5	55.	0.5488	6.e-002	5.23e-002
112	71.	55.5	0.5444	5.56e-002	4.847e-002
113	71.5	56.	0.545	5.62e-002	4.899e-002
114	72.	56.5	0.5456	5.68e-002	4.951e-002
115	72.5	57.	0.5494	6.06e-002	5.282e-002
116	73.	57.5	0.5447	5.59e-002	4.873e-002
117	73.5	58.	0.5437	5.49e-002	4.786e-002
118	74.	58.5	0.5434	5.46e-002	4.759e-002
119	74.5	59.	0.5461	5.73e-002	4.995e-002
120	75.	59.5	0.5446	5.58e-002	4.864e-002
121	75.5	60.	0.5465	5.77e-002	5.03e-002
122	76.	60.5	0.5459	5.71e-002	4.977e-002
123	76.5	61.	0.5433	5.45e-002	4.751e-002
124	77.	61.5	0.5449	5.61e-002	4.89e-002
125	77.5	62.	0.5417	5.29e-002	4.611e-002
126	78.	62.5	0.5452	5.64e-002	4.916e-002
127	78.5	63.	0.5435	5.47e-002	4.768e-002
128	79.	63.5	0.5411	5.23e-002	4.559e-002
129	79.5	64.	0.5437	5.49e-002	4.786e-002
130	80.	64.5	0.5449	5.61e-002	4.89e-002
131	80.5	65.	0.5431	5.43e-002	4.733e-002
132	81.	65.5	0.5383	4.95e-002	4.315e-002
133	81.5	66.	0.544	5.52e-002	4.812e-002
134	82.	66.5	0.5399	5.11e-002	4.454e-002
135	82.5	67.	0.542	5.32e-002	4.637e-002
136	83.	67.5	0.5432	5.44e-002	4.742e-002
137	83.5	68.	0.5407	5.19e-002	4.524e-002
138	84.	68.5	0.5405	5.17e-002	4.507e-002
139	84.5	69.	0.5378	4.9e-002	4.271e-002
140	85.	69.5	0.5362	4.74e-002	4.132e-002
141	85.5	70.	0.5387	4.99e-002	4.35e-002
142	86.	70.5	0.5396	5.08e-002	4.428e-002
143	86.5	71.	0.539	5.02e-002	4.376e-002
144	87.	71.5	0.5398	5.1e-002	4.446e-002
145	87.5	72.	0.5389	5.01e-002	4.367e-002
146	88.	72.5	0.5381	4.93e-002	4.297e-002
147	88.5	73.	0.5405	5.17e-002	4.507e-002
148	89.	73.5	0.5389	5.01e-002	4.367e-002
149	89.5	74.	0.539	5.02e-002	4.376e-002
150	90.	74.5	0.5416	5.28e-002	4.603e-002
151	90.5	75.	0.5398	5.1e-002	4.446e-002
152	91.	75.5	0.5387	4.99e-002	4.35e-002
153	91.5	76.	0.5403	5.15e-002	4.489e-002
154	92.	76.5	0.5401	5.13e-002	4.472e-002
155	92.5	77.	0.5425	5.37e-002	4.681e-002
156	93.	77.5	0.535	4.62e-002	4.027e-002

157	93.5	78.	0.5155	2.67e-002	2.327e-002
158	94.	78.5	0.5364	4.76e-002	4.149e-002
159	94.5	79.	0.5325	4.37e-002	3.809e-002
160	95.	79.5	0.5335	4.47e-002	3.896e-002
161	95.5	80.	0.5391	5.03e-002	4.385e-002
162	96.	80.5	0.5368	4.8e-002	4.184e-002
163	96.5	81.	0.5361	4.73e-002	4.123e-002
164	97.	81.5	0.5319	4.31e-002	3.757e-002
165	97.5	82.	0.5329	4.41e-002	3.844e-002
166	98.	82.5	0.5369	4.81e-002	4.193e-002
167	98.5	83.	0.5341	4.53e-002	3.949e-002
168	99.	83.5	0.5365	4.77e-002	4.158e-002
169	99.5	84.	0.5368	4.8e-002	4.184e-002
170	100.	84.5	0.5381	4.93e-002	4.297e-002
171	100.5	85.	0.5342	4.54e-002	3.957e-002
172	101.	85.5	0.5331	4.43e-002	3.862e-002
173	101.5	86.	0.5363	4.75e-002	4.141e-002
174	102.	86.5	0.5306	4.18e-002	3.644e-002
175	102.5	87.	0.5305	4.17e-002	3.635e-002
176	103.	87.5	0.5407	5.19e-002	4.524e-002
177	103.5	88.	0.5365	4.77e-002	4.158e-002
178	104.	88.5	0.5299	4.11e-002	3.583e-002
179	104.5	89.	0.5376	4.88e-002	4.254e-002
180	105.	89.5	0.5336	4.48e-002	3.905e-002
181	105.5	90.	0.5335	4.47e-002	3.896e-002
182	106.	90.5	0.5293	4.05e-002	3.53e-002
183	106.5	91.	0.5354	4.66e-002	4.062e-002
184	107.	91.5	0.534	4.52e-002	3.94e-002
185	107.5	92.	0.5305	4.17e-002	3.635e-002
186	108.	92.5	0.5354	4.66e-002	4.062e-002
187	108.5	93.	0.5281	3.93e-002	3.426e-002
188	109.	93.5	0.5346	4.58e-002	3.992e-002
189	109.5	94.	0.5307	4.19e-002	3.652e-002
190	110.	94.5	0.5296	4.08e-002	3.556e-002
191	110.5	95.	0.5316	4.28e-002	3.731e-002
192	111.	95.5	0.532	4.32e-002	3.766e-002
193	111.5	96.	0.5332	4.44e-002	3.87e-002
194	112.	96.5	0.535	4.62e-002	4.027e-002
195	112.5	97.	0.5348	4.6e-002	4.01e-002
196	113.	97.5	0.533	4.42e-002	3.853e-002
197	113.5	98.	0.5293	4.05e-002	3.53e-002
198	114.	98.5	0.5326	4.38e-002	3.818e-002
199	114.5	99.	0.5287	3.99e-002	3.478e-002
200	115.	99.5	0.529	4.02e-002	3.504e-002
201	115.5	100.	0.5336	4.48e-002	3.905e-002
202	116.	100.5	0.5344	4.56e-002	3.975e-002
203	116.5	101.	0.5347	4.59e-002	4.001e-002
204	117.	101.5	0.5318	4.3e-002	3.748e-002
205	117.5	102.	0.5302	4.14e-002	3.609e-002
206	118.	102.5	0.5291	4.03e-002	3.513e-002
207	118.5	103.	0.5344	4.56e-002	3.975e-002
208	119.	103.5	0.5329	4.41e-002	3.844e-002
209	119.5	104.	0.5302	4.14e-002	3.609e-002
210	120.	104.5	0.5331	4.43e-002	3.862e-002
211	120.5	105.	0.5295	4.07e-002	3.548e-002
212	121.	105.5	0.5347	4.59e-002	4.001e-002
213	121.5	106.	0.5297	4.09e-002	3.565e-002
214	122.	106.5	0.5313	4.25e-002	3.705e-002
215	122.5	107.	0.5291	4.03e-002	3.513e-002
216	123.	107.5	0.5298	4.1e-002	3.574e-002

217	123.5	108.	0.5299	4.11e-002	3.583e-002
218	124.	108.5	0.5344	4.56e-002	3.975e-002
219	124.5	109.	0.5297	4.09e-002	3.565e-002
220	125.	109.5	0.5294	4.06e-002	3.539e-002
221	125.5	110.	0.5332	4.44e-002	3.87e-002
222	126.	110.5	0.5255	3.67e-002	3.199e-002
223	126.5	111.	0.5282	3.94e-002	3.434e-002
224	127.	111.5	0.5327	4.39e-002	3.827e-002
225	127.5	112.	0.5302	4.14e-002	3.609e-002
226	128.	112.5	0.5312	4.24e-002	3.696e-002
227	128.5	113.	0.5297	4.09e-002	3.565e-002
228	129.	113.5	0.5294	4.06e-002	3.539e-002
229	129.5	114.	0.5311	4.23e-002	3.687e-002
230	130.	114.5	0.5309	4.21e-002	3.67e-002
231	130.5	115.	0.5296	4.08e-002	3.556e-002
232	131.	115.5	0.5288	4.e-002	3.487e-002
233	131.5	116.	0.5242	3.54e-002	3.086e-002
234	132.	116.5	0.5318	4.3e-002	3.748e-002
235	132.5	117.	0.5239	3.51e-002	3.06e-002
236	133.	117.5	0.526	3.72e-002	3.243e-002
237	133.5	118.	0.527	3.82e-002	3.33e-002
238	134.	118.5	0.5275	3.87e-002	3.373e-002
239	134.5	119.	0.5234	3.46e-002	3.016e-002
240	135.	119.5	0.5275	3.87e-002	3.373e-002
241	135.5	120.	0.5269	3.81e-002	3.321e-002
242	136.	120.5	0.5241	3.53e-002	3.077e-002
243	136.5	121.	0.5275	3.87e-002	3.373e-002
244	137.	121.5	0.5296	4.08e-002	3.556e-002
245	137.5	122.	0.5293	4.05e-002	3.53e-002
246	138.	122.5	0.5246	3.58e-002	3.121e-002
247	138.5	123.	0.5233	3.45e-002	3.007e-002
248	139.	123.5	0.5276	3.88e-002	3.382e-002
249	139.5	124.	0.5261	3.73e-002	3.251e-002
250	140.	124.5	0.525	3.62e-002	3.156e-002
251	140.5	125.	0.5267	3.79e-002	3.304e-002
252	141.	125.5	0.5255	3.67e-002	3.199e-002
253	141.5	126.	0.5261	3.73e-002	3.251e-002
254	142.	126.5	0.5293	4.05e-002	3.53e-002
255	142.5	127.	0.5278	3.9e-002	3.4e-002
256	143.	127.5	0.5308	4.2e-002	3.661e-002
257	143.5	128.	0.5303	4.15e-002	3.618e-002
258	144.	128.5	0.5232	3.44e-002	2.999e-002
259	144.5	129.	0.5242	3.54e-002	3.086e-002
260	145.	129.5	0.5278	3.9e-002	3.4e-002
261	145.5	130.	0.5248	3.6e-002	3.138e-002
262	146.	130.5	0.5235	3.47e-002	3.025e-002
263	146.5	131.	0.5238	3.5e-002	3.051e-002
264	147.	131.5	0.5257	3.69e-002	3.217e-002
265	147.5	132.	0.5292	4.04e-002	3.522e-002
266	148.	132.5	0.5242	3.54e-002	3.086e-002
267	148.5	133.	0.5269	3.81e-002	3.321e-002
268	149.	133.5	0.5247	3.59e-002	3.129e-002
269	149.5	134.	0.5257	3.69e-002	3.217e-002
270	150.	134.5	0.5305	4.17e-002	3.635e-002
271	150.5	135.	0.5294	4.06e-002	3.539e-002
272	151.	135.5	0.527	3.82e-002	3.33e-002
273	151.5	136.	0.5239	3.51e-002	3.06e-002
274	152.	136.5	0.5266	3.78e-002	3.295e-002
275	152.5	137.	0.5249	3.61e-002	3.147e-002
276	153.	137.5	0.527	3.82e-002	3.33e-002

277	153.5	138.	0.5264	3.76e-002	3.278e-002
278	154.	138.5	0.5242	3.54e-002	3.086e-002
279	154.5	139.	0.5272	3.84e-002	3.347e-002
280	155.	139.5	0.5308	4.2e-002	3.661e-002
281	155.5	140.	0.5243	3.55e-002	3.094e-002
282	156.	140.5	0.5257	3.69e-002	3.217e-002
283	156.5	141.	0.5196	3.08e-002	2.685e-002
284	157.	141.5	0.5263	3.75e-002	3.269e-002
285	157.5	142.	0.5239	3.51e-002	3.06e-002
286	158.	142.5	0.5218	3.3e-002	2.877e-002
287	158.5	143.	0.5209	3.21e-002	2.798e-002
288	159.	143.5	0.5252	3.64e-002	3.173e-002
289	159.5	144.	0.5248	3.6e-002	3.138e-002
290	160.	144.5	0.5238	3.5e-002	3.051e-002
291	160.5	145.	0.5227	3.39e-002	2.955e-002
292	161.	145.5	0.522	3.32e-002	2.894e-002
293	161.5	146.	0.5255	3.67e-002	3.199e-002
294	162.	146.5	0.5234	3.46e-002	3.016e-002
295	162.5	147.	0.5252	3.64e-002	3.173e-002
296	163.	147.5	0.524	3.52e-002	3.068e-002
297	163.5	148.	0.5275	3.87e-002	3.373e-002
298	164.	148.5	0.5245	3.57e-002	3.112e-002
299	164.5	149.	0.5258	3.7e-002	3.225e-002
300	165.	149.5	0.5243	3.55e-002	3.094e-002
301	165.5	150.	0.5275	3.87e-002	3.373e-002
302	166.	150.5	0.5261	3.73e-002	3.251e-002
303	166.5	151.	0.5239	3.51e-002	3.06e-002
304	167.	151.5	0.5246	3.58e-002	3.121e-002
305	167.5	152.	0.5227	3.39e-002	2.955e-002
306	168.	152.5	0.5212	3.24e-002	2.824e-002
307	168.5	153.	0.5221	3.33e-002	2.903e-002
308	169.	153.5	0.5222	3.34e-002	2.911e-002
309	169.5	154.	0.5197	3.09e-002	2.694e-002
310	170.	154.5	0.5258	3.7e-002	3.225e-002
311	170.5	155.	0.5191	3.03e-002	2.641e-002
312	171.	155.5	0.5237	3.49e-002	3.042e-002
313	171.5	156.	0.5216	3.28e-002	2.859e-002
314	172.	156.5	0.5216	3.28e-002	2.859e-002
315	172.5	157.	0.5221	3.33e-002	2.903e-002
316	173.	157.5	0.5197	3.09e-002	2.694e-002
317	173.5	158.	0.5233	3.45e-002	3.007e-002
318	174.	158.5	0.5232	3.44e-002	2.999e-002
319	174.5	159.	0.5221	3.33e-002	2.903e-002
320	175.	159.5	0.5252	3.64e-002	3.173e-002
321	175.5	160.	0.5214	3.26e-002	2.842e-002
322	176.	160.5	0.5188	3.e-002	2.615e-002
323	176.5	161.	0.5224	3.36e-002	2.929e-002
324	177.	161.5	0.5259	3.71e-002	3.234e-002
325	177.5	162.	0.5196	3.08e-002	2.685e-002
326	178.	162.5	0.5197	3.09e-002	2.694e-002
327	178.5	163.	0.5227	3.39e-002	2.955e-002
328	179.	163.5	0.523	3.42e-002	2.981e-002
329	179.5	164.	0.5226	3.38e-002	2.946e-002
330	180.	164.5	0.5239	3.51e-002	3.06e-002
331	180.5	165.	0.5228	3.4e-002	2.964e-002
332	181.	165.5	0.5222	3.34e-002	2.911e-002
333	181.5	166.	0.5234	3.46e-002	3.016e-002
334	182.	166.5	0.5179	2.91e-002	2.537e-002
335	182.5	167.	0.5207	3.19e-002	2.781e-002
336	183.	167.5	0.5253	3.65e-002	3.182e-002

337	183.5	168.	0.5222	3.34e-002	2.911e-002
338	184.	168.5	0.5219	3.31e-002	2.885e-002
339	184.5	169.	0.5193	3.05e-002	2.659e-002
340	185.	169.5	0.5193	3.05e-002	2.659e-002
341	185.5	170.	0.5205	3.17e-002	2.763e-002
342	186.	170.5	0.5221	3.33e-002	2.903e-002
343	186.5	171.	0.524	3.52e-002	3.068e-002
344	187.	171.5	0.5215	3.27e-002	2.85e-002
345	187.5	172.	0.5255	3.67e-002	3.199e-002
346	188.	172.5	0.5214	3.26e-002	2.842e-002
347	188.5	173.	0.5175	2.87e-002	2.502e-002
348	189.	173.5	0.5202	3.14e-002	2.737e-002
349	189.5	174.	0.5267	3.79e-002	3.304e-002
350	190.	174.5	0.5192	3.04e-002	2.65e-002
351	190.5	175.	0.5204	3.16e-002	2.755e-002
352	191.	175.5	0.5239	3.51e-002	3.06e-002
353	191.5	176.	0.5227	3.39e-002	2.955e-002
354	192.	176.5	0.5215	3.27e-002	2.85e-002
355	192.5	177.	0.5202	3.14e-002	2.737e-002
356	193.	177.5	0.5207	3.19e-002	2.781e-002
357	193.5	178.	0.5224	3.36e-002	2.929e-002
358	194.	178.5	0.5234	3.46e-002	3.016e-002
359	194.5	179.	0.5201	3.13e-002	2.728e-002
360	195.	179.5	0.5227	3.39e-002	2.955e-002
361	195.5	180.	0.5199	3.11e-002	2.711e-002
362	196.	180.5	0.5189	3.01e-002	2.624e-002
363	196.5	181.	0.5234	3.46e-002	3.016e-002
364	197.	181.5	0.5234	3.46e-002	3.016e-002
365	197.5	182.	0.523	3.42e-002	2.981e-002
366	198.	182.5	0.523	3.42e-002	2.981e-002
367	198.5	183.	0.518	2.92e-002	2.545e-002
368	199.	183.5	0.5225	3.37e-002	2.938e-002
369	199.5	184.	0.5216	3.28e-002	2.859e-002
370	200.	184.5	0.5148	2.6e-002	2.266e-002
371	200.5	185.	0.521	3.22e-002	2.807e-002
372	201.	185.5	0.5219	3.31e-002	2.885e-002
373	201.5	186.	0.5153	2.65e-002	2.31e-002
374	202.	186.5	0.5204	3.16e-002	2.755e-002
375	202.5	187.	0.5228	3.4e-002	2.964e-002
376	203.	187.5	0.5197	3.09e-002	2.694e-002
377	203.5	188.	0.5224	3.36e-002	2.929e-002
378	204.	188.5	0.5199	3.11e-002	2.711e-002
379	204.5	189.	0.5159	2.71e-002	2.362e-002
380	205.	189.5	0.519	3.02e-002	2.632e-002
381	205.5	190.	0.5215	3.27e-002	2.85e-002
382	206.	190.5	0.5188	3.e-002	2.615e-002
383	206.5	191.	0.519	3.02e-002	2.632e-002
384	207.	191.5	0.5216	3.28e-002	2.859e-002
385	207.5	192.	0.5219	3.31e-002	2.885e-002
386	208.	192.5	0.5225	3.37e-002	2.938e-002
387	208.5	193.	0.5198	3.1e-002	2.702e-002
388	209.	193.5	0.5222	3.34e-002	2.911e-002
389	209.5	194.	0.5213	3.25e-002	2.833e-002
390	210.	194.5	0.5199	3.11e-002	2.711e-002
391	210.5	195.	0.5168	2.8e-002	2.441e-002
392	211.	195.5	0.5233	3.45e-002	3.007e-002
393	211.5	196.	0.5193	3.05e-002	2.659e-002
394	212.	196.5	0.5202	3.14e-002	2.737e-002
395	212.5	197.	0.5141	2.53e-002	2.205e-002
396	213.	197.5	0.5201	3.13e-002	2.728e-002

397	213.5	198.	0.5248	3.6e-002	3.138e-002
398	214.	198.5	0.5169	2.81e-002	2.449e-002
399	214.5	199.	0.5216	3.28e-002	2.859e-002
400	215.	199.5	0.5206	3.18e-002	2.772e-002
401	215.5	200.	0.5166	2.78e-002	2.423e-002
402	216.	200.5	0.5204	3.16e-002	2.755e-002
403	216.5	201.	0.5175	2.87e-002	2.502e-002
404	217.	201.5	0.5202	3.14e-002	2.737e-002
405	217.5	202.	0.5205	3.17e-002	2.763e-002
406	218.	202.5	0.5185	2.97e-002	2.589e-002
407	218.5	203.	0.518	2.92e-002	2.545e-002
408	219.	203.5	0.5216	3.28e-002	2.859e-002
409	219.5	204.	0.5189	3.01e-002	2.624e-002
410	220.	204.5	0.5221	3.33e-002	2.903e-002
411	220.5	205.	0.5209	3.21e-002	2.798e-002
412	221.	205.5	0.5202	3.14e-002	2.737e-002
413	221.5	206.	0.5209	3.21e-002	2.798e-002
414	222.	206.5	0.5158	2.7e-002	2.354e-002
415	222.5	207.	0.5218	3.3e-002	2.877e-002
416	223.	207.5	0.5224	3.36e-002	2.929e-002
417	223.5	208.	0.5202	3.14e-002	2.737e-002
418	224.	208.5	0.5179	2.91e-002	2.537e-002
419	224.5	209.	0.5233	3.45e-002	3.007e-002
420	225.	209.5	0.5216	3.28e-002	2.859e-002
421	225.5	210.	0.5205	3.17e-002	2.763e-002
422	226.	210.5	0.5169	2.81e-002	2.449e-002
423	226.5	211.	0.5204	3.16e-002	2.755e-002
424	227.	211.5	0.5204	3.16e-002	2.755e-002
425	227.5	212.	0.5181	2.93e-002	2.554e-002
426	228.	212.5	0.5219	3.31e-002	2.885e-002
427	228.5	213.	0.5158	2.7e-002	2.354e-002
428	229.	213.5	0.5183	2.95e-002	2.571e-002
429	229.5	214.	0.5207	3.19e-002	2.781e-002
430	230.	214.5	0.5188	3.e-002	2.615e-002
431	230.5	215.	0.5214	3.26e-002	2.842e-002
432	231.	215.5	0.5213	3.25e-002	2.833e-002
433	231.5	216.	0.5179	2.91e-002	2.537e-002
434	232.	216.5	0.5202	3.14e-002	2.737e-002
435	232.5	217.	0.5162	2.74e-002	2.388e-002
436	233.	217.5	0.5183	2.95e-002	2.571e-002
437	233.5	218.	0.5185	2.97e-002	2.589e-002
438	234.	218.5	0.5162	2.74e-002	2.388e-002
439	234.5	219.	0.525	3.62e-002	3.156e-002
440	235.	219.5	0.5144	2.56e-002	2.232e-002
441	235.5	220.	0.5199	3.11e-002	2.711e-002
442	236.	220.5	0.5218	3.3e-002	2.877e-002
443	236.5	221.	0.5179	2.91e-002	2.537e-002
444	237.	221.5	0.5164	2.76e-002	2.406e-002
445	237.5	222.	0.5161	2.73e-002	2.38e-002
446	238.	222.5	0.5175	2.87e-002	2.502e-002
447	238.5	223.	0.5174	2.86e-002	2.493e-002
448	239.	223.5	0.5231	3.43e-002	2.99e-002
449	239.5	224.	0.5193	3.05e-002	2.659e-002
450	240.	224.5	0.5189	3.01e-002	2.624e-002
451	240.5	225.	0.5169	2.81e-002	2.449e-002
452	241.	225.5	0.5192	3.04e-002	2.65e-002
453	241.5	226.	0.5144	2.56e-002	2.232e-002
454	242.	226.5	0.5181	2.93e-002	2.554e-002
455	242.5	227.	0.5186	2.98e-002	2.598e-002
456	243.	227.5	0.5166	2.78e-002	2.423e-002

457	243.5	228.	0.5192	3.04e-002	2.65e-002
458	244.	228.5	0.5174	2.86e-002	2.493e-002
459	244.5	229.	0.516	2.72e-002	2.371e-002
460	245.	229.5	0.5158	2.7e-002	2.354e-002
461	245.5	230.	0.5224	3.36e-002	2.929e-002
462	246.	230.5	0.5159	2.71e-002	2.362e-002
463	246.5	231.	0.5143	2.55e-002	2.223e-002
464	247.	231.5	0.5133	2.45e-002	2.136e-002
465	247.5	232.	0.519	3.02e-002	2.632e-002
466	248.	232.5	0.5198	3.1e-002	2.702e-002
467	248.5	233.	0.5185	2.97e-002	2.589e-002
468	249.	233.5	0.5195	3.07e-002	2.676e-002
469	249.5	234.	0.5181	2.93e-002	2.554e-002
470	250.	234.5	0.5167	2.79e-002	2.432e-002
471	250.5	235.	0.5215	3.27e-002	2.85e-002
472	251.	235.5	0.5153	2.65e-002	2.31e-002
473	251.5	236.	0.518	2.92e-002	2.545e-002
474	252.	236.5	0.5148	2.6e-002	2.266e-002
475	252.5	237.	0.5186	2.98e-002	2.598e-002
476	253.	237.5	0.5166	2.78e-002	2.423e-002
477	253.5	238.	0.5166	2.78e-002	2.423e-002
478	254.	238.5	0.5143	2.55e-002	2.223e-002
479	254.5	239.	0.5231	3.43e-002	2.99e-002
480	255.	239.5	0.5161	2.73e-002	2.38e-002
481	255.5	240.	0.5158	2.7e-002	2.354e-002
482	256.	240.5	0.518	2.92e-002	2.545e-002
483	256.5	241.	0.5212	3.24e-002	2.824e-002
484	257.	241.5	0.5152	2.64e-002	2.301e-002
485	257.5	242.	0.5181	2.93e-002	2.554e-002
486	258.	242.5	0.5209	3.21e-002	2.798e-002
487	258.5	243.	0.5175	2.87e-002	2.502e-002
488	259.	243.5	0.5165	2.77e-002	2.415e-002
489	259.5	244.	0.5151	2.63e-002	2.293e-002
490	260.	244.5	0.5181	2.93e-002	2.554e-002
491	260.5	245.	0.5168	2.8e-002	2.441e-002
492	261.	245.5	0.5193	3.05e-002	2.659e-002
493	261.5	246.	0.5172	2.84e-002	2.476e-002
494	262.	246.5	0.5164	2.76e-002	2.406e-002
495	262.5	247.	0.5153	2.65e-002	2.31e-002
496	263.	247.5	0.5159	2.71e-002	2.362e-002
497	263.5	248.	0.5199	3.11e-002	2.711e-002
498	264.	248.5	0.515	2.62e-002	2.284e-002
499	264.5	249.	0.5147	2.59e-002	2.258e-002
500	265.	249.5	0.5147	2.59e-002	2.258e-002
501	265.5	250.	0.5202	3.14e-002	2.737e-002
502	266.	250.5	0.5153	2.65e-002	2.31e-002
503	266.5	251.	0.5161	2.73e-002	2.38e-002
504	267.	251.5	0.5156	2.68e-002	2.336e-002
505	267.5	252.	0.5186	2.98e-002	2.598e-002
506	268.	252.5	0.5199	3.11e-002	2.711e-002
507	268.5	253.	0.5204	3.16e-002	2.755e-002
508	269.	253.5	0.5156	2.68e-002	2.336e-002
509	269.5	254.	0.5213	3.25e-002	2.833e-002
510	270.	254.5	0.5168	2.8e-002	2.441e-002
511	270.5	255.	0.5162	2.74e-002	2.388e-002
512	271.	255.5	0.5175	2.87e-002	2.502e-002
513	271.5	256.	0.5188	3.e-002	2.615e-002
514	272.	256.5	0.5142	2.54e-002	2.214e-002
515	272.5	257.	0.521	3.22e-002	2.807e-002
516	273.	257.5	0.5151	2.63e-002	2.293e-002

517	273.5	258.	0.5177	2.89e-002	2.519e-002
518	274.	258.5	0.5162	2.74e-002	2.388e-002
519	274.5	259.	0.5122	2.34e-002	2.04e-002
520	275.	259.5	0.5185	2.97e-002	2.589e-002
521	275.5	260.	0.5212	3.24e-002	2.824e-002
522	276.	260.5	0.5133	2.45e-002	2.136e-002
523	276.5	261.	0.5126	2.38e-002	2.075e-002
524	277.	261.5	0.5138	2.5e-002	2.179e-002
525	277.5	262.	0.5156	2.68e-002	2.336e-002
526	278.	262.5	0.5209	3.21e-002	2.798e-002
527	278.5	263.	0.5205	3.17e-002	2.763e-002
528	279.	263.5	0.513	2.42e-002	2.109e-002
529	279.5	264.	0.5205	3.17e-002	2.763e-002
530	280.	264.5	0.5137	2.49e-002	2.171e-002
531	280.5	265.	0.5177	2.89e-002	2.519e-002
532	281.	265.5	0.5156	2.68e-002	2.336e-002
533	281.5	266.	0.5193	3.05e-002	2.659e-002
534	282.	266.5	0.5144	2.56e-002	2.232e-002
535	282.5	267.	0.5164	2.76e-002	2.406e-002
536	283.	267.5	0.5136	2.48e-002	2.162e-002
537	283.5	268.	0.5185	2.97e-002	2.589e-002
538	284.	268.5	0.5175	2.87e-002	2.502e-002
539	284.5	269.	0.5152	2.64e-002	2.301e-002
540	285.	269.5	0.5174	2.86e-002	2.493e-002
541	285.5	270.	0.5159	2.71e-002	2.362e-002
542	286.	270.5	0.5169	2.81e-002	2.449e-002
543	286.5	271.	0.5172	2.84e-002	2.476e-002
544	287.	271.5	0.5188	3.e-002	2.615e-002
545	287.5	272.	0.5174	2.86e-002	2.493e-002
546	288.	272.5	0.5148	2.6e-002	2.266e-002
547	288.5	273.	0.5162	2.74e-002	2.388e-002
548	289.	273.5	0.5171	2.83e-002	2.467e-002
549	289.5	274.	0.5172	2.84e-002	2.476e-002
550	290.	274.5	0.5158	2.7e-002	2.354e-002
551	290.5	275.	0.5189	3.01e-002	2.624e-002
552	291.	275.5	0.518	2.92e-002	2.545e-002
553	291.5	276.	0.5179	2.91e-002	2.537e-002
554	292.	276.5	0.5141	2.53e-002	2.205e-002
555	292.5	277.	0.5168	2.8e-002	2.441e-002
556	293.	277.5	0.5154	2.66e-002	2.319e-002
557	293.5	278.	0.5158	2.7e-002	2.354e-002
558	294.	278.5	0.5142	2.54e-002	2.214e-002
559	294.5	279.	0.5154	2.66e-002	2.319e-002
560	295.	279.5	0.5151	2.63e-002	2.293e-002
561	295.5	280.	0.5162	2.74e-002	2.388e-002
562	296.	280.5	0.521	3.22e-002	2.807e-002
563	296.5	281.	0.5179	2.91e-002	2.537e-002
564	297.	281.5	0.5156	2.68e-002	2.336e-002
565	297.5	282.	0.5141	2.53e-002	2.205e-002
566	298.	282.5	0.5168	2.8e-002	2.441e-002
567	298.5	283.	0.5156	2.68e-002	2.336e-002
568	299.	283.5	0.5165	2.77e-002	2.415e-002
569	299.5	284.	0.5165	2.77e-002	2.415e-002
570	300.	284.5	0.5185	2.97e-002	2.589e-002
571	300.5	285.	0.5101	2.13e-002	1.857e-002
572	301.	285.5	0.513	2.42e-002	2.109e-002
573	301.5	286.	0.5177	2.89e-002	2.519e-002
574	302.	286.5	0.5153	2.65e-002	2.31e-002
575	302.5	287.	0.5154	2.66e-002	2.319e-002
576	303.	287.5	0.5148	2.6e-002	2.266e-002

577	303.5	288.	0.5162	2.74e-002	2.388e-002
578	304.	288.5	0.5117	2.29e-002	1.996e-002
579	304.5	289.	0.5161	2.73e-002	2.38e-002
580	305.	289.5	0.5115	2.27e-002	1.979e-002
581	305.5	290.	0.5134	2.46e-002	2.144e-002
582	306.	290.5	0.5189	3.01e-002	2.624e-002
583	306.5	291.	0.518	2.92e-002	2.545e-002
584	307.	291.5	0.5139	2.51e-002	2.188e-002
585	307.5	292.	0.5159	2.71e-002	2.362e-002
586	308.	292.5	0.5158	2.7e-002	2.354e-002
587	308.5	293.	0.5139	2.51e-002	2.188e-002
588	309.	293.5	0.5189	3.01e-002	2.624e-002
589	309.5	294.	0.515	2.62e-002	2.284e-002
590	310.	294.5	0.515	2.62e-002	2.284e-002
591	310.5	295.	0.5123	2.35e-002	2.048e-002
592	311.	295.5	0.5174	2.86e-002	2.493e-002
593	311.5	296.	0.5138	2.5e-002	2.179e-002
594	312.	296.5	0.5144	2.56e-002	2.232e-002
595	312.5	297.	0.5115	2.27e-002	1.979e-002
596	313.	297.5	0.513	2.42e-002	2.109e-002
597	313.5	298.	0.5188	3.e-002	2.615e-002
598	314.	298.5	0.5151	2.63e-002	2.293e-002
599	314.5	299.	0.5161	2.73e-002	2.38e-002
600	315.	299.5	0.5102	2.14e-002	1.865e-002
601	315.5	300.	0.5175	2.87e-002	2.502e-002
602	316.	300.5	0.5154	2.66e-002	2.319e-002
603	316.5	301.	0.5108	2.2e-002	1.918e-002
604	317.	301.5	0.5175	2.87e-002	2.502e-002
605	317.5	302.	0.5186	2.98e-002	2.598e-002
606	318.	302.5	0.5136	2.48e-002	2.162e-002
607	318.5	303.	0.5154	2.66e-002	2.319e-002
608	319.	303.5	0.5175	2.87e-002	2.502e-002
609	319.5	304.	0.5138	2.5e-002	2.179e-002
610	320.	304.5	0.5172	2.84e-002	2.476e-002
611	320.5	305.	0.5141	2.53e-002	2.205e-002
612	321.	305.5	0.5136	2.48e-002	2.162e-002
613	321.5	306.	0.5147	2.59e-002	2.258e-002
614	322.	306.5	0.5151	2.63e-002	2.293e-002
615	322.5	307.	0.5158	2.7e-002	2.354e-002
616	323.	307.5	0.5156	2.68e-002	2.336e-002
617	323.5	308.	0.5147	2.59e-002	2.258e-002
618	324.	308.5	0.5119	2.31e-002	2.014e-002
619	324.5	309.	0.5141	2.53e-002	2.205e-002
620	325.	309.5	0.5177	2.89e-002	2.519e-002
621	325.5	310.	0.5124	2.36e-002	2.057e-002
622	326.	310.5	0.5156	2.68e-002	2.336e-002
623	326.5	311.	0.5128	2.4e-002	2.092e-002
624	327.	311.5	0.5135	2.47e-002	2.153e-002
625	327.5	312.	0.5189	3.01e-002	2.624e-002
626	328.	312.5	0.5158	2.7e-002	2.354e-002
627	328.5	313.	0.5145	2.57e-002	2.24e-002
628	329.	313.5	0.5181	2.93e-002	2.554e-002
629	329.5	314.	0.5153	2.65e-002	2.31e-002
630	330.	314.5	0.5158	2.7e-002	2.354e-002
631	330.5	315.	0.5136	2.48e-002	2.162e-002
632	331.	315.5	0.5175	2.87e-002	2.502e-002
633	331.5	316.	0.5129	2.41e-002	2.101e-002
634	332.	316.5	0.5124	2.36e-002	2.057e-002
635	332.5	317.	0.5153	2.65e-002	2.31e-002
636	333.	317.5	0.5139	2.51e-002	2.188e-002

637	333.5	318.	0.515	2.62e-002	2.284e-002
638	334.	318.5	0.5156	2.68e-002	2.336e-002
639	334.5	319.	0.5124	2.36e-002	2.057e-002
640	335.	319.5	0.5109	2.21e-002	1.926e-002
641	335.5	320.	0.5166	2.78e-002	2.423e-002
642	336.	320.5	0.5164	2.76e-002	2.406e-002
643	336.5	321.	0.5151	2.63e-002	2.293e-002
644	337.	321.5	0.5077	1.89e-002	1.647e-002
645	337.5	322.	0.5156	2.68e-002	2.336e-002
646	338.	322.5	0.512	2.32e-002	2.022e-002
647	338.5	323.	0.5114	2.26e-002	1.97e-002
648	339.	323.5	0.5124	2.36e-002	2.057e-002
649	339.5	324.	0.5171	2.83e-002	2.467e-002
650	340.	324.5	0.5138	2.5e-002	2.179e-002
651	340.5	325.	0.5227	3.39e-002	2.955e-002
652	341.	325.5	0.513	2.42e-002	2.109e-002
653	341.5	326.	0.5171	2.83e-002	2.467e-002
654	342.	326.5	0.5177	2.89e-002	2.519e-002
655	342.5	327.	0.5119	2.31e-002	2.014e-002
656	343.	327.5	0.5181	2.93e-002	2.554e-002
657	343.5	328.	0.5124	2.36e-002	2.057e-002
658	344.	328.5	0.5156	2.68e-002	2.336e-002
659	344.5	329.	0.5151	2.63e-002	2.293e-002
660	345.	329.5	0.5111	2.23e-002	1.944e-002
661	345.5	330.	0.5153	2.65e-002	2.31e-002
662	346.	330.5	0.5169	2.81e-002	2.449e-002
663	346.5	331.	0.5118	2.3e-002	2.005e-002
664	347.	331.5	0.5141	2.53e-002	2.205e-002
665	347.5	332.	0.514	2.52e-002	2.197e-002
666	348.	332.5	0.508	1.92e-002	1.674e-002
667	348.5	333.	0.5165	2.77e-002	2.415e-002
668	349.	333.5	0.5144	2.56e-002	2.232e-002
669	349.5	334.	0.5135	2.47e-002	2.153e-002
670	350.	334.5	0.511	2.22e-002	1.935e-002
671	350.5	335.	0.5124	2.36e-002	2.057e-002
672	351.	335.5	0.5142	2.54e-002	2.214e-002
673	351.5	336.	0.5141	2.53e-002	2.205e-002
674	352.	336.5	0.5115	2.27e-002	1.979e-002
675	352.5	337.	0.5159	2.71e-002	2.362e-002
676	353.	337.5	0.5127	2.39e-002	2.083e-002
677	353.5	338.	0.5115	2.27e-002	1.979e-002
678	354.	338.5	0.515	2.62e-002	2.284e-002
679	354.5	339.	0.5126	2.38e-002	2.075e-002
680	355.	339.5	0.5126	2.38e-002	2.075e-002
681	355.5	340.	0.512	2.32e-002	2.022e-002
682	356.	340.5	0.5142	2.54e-002	2.214e-002
683	356.5	341.	0.5127	2.39e-002	2.083e-002
684	357.	341.5	0.5135	2.47e-002	2.153e-002
685	357.5	342.	0.5161	2.73e-002	2.38e-002
686	358.	342.5	0.5183	2.95e-002	2.571e-002
687	358.5	343.	0.5133	2.45e-002	2.136e-002
688	359.	343.5	0.5123	2.35e-002	2.048e-002
689	359.5	344.	0.514	2.52e-002	2.197e-002
690	360.	344.5	0.5169	2.81e-002	2.449e-002
691	360.5	345.	0.5126	2.38e-002	2.075e-002
692	361.	345.5	0.5077	1.89e-002	1.647e-002
693	361.5	346.	0.5131	2.43e-002	2.118e-002
694	362.	346.5	0.5134	2.46e-002	2.144e-002
695	362.5	347.	0.5086	1.98e-002	1.726e-002
696	363.	347.5	0.5134	2.46e-002	2.144e-002

697	363.5	348.	0.5175	2.87e-002	2.502e-002
698	364.	348.5	0.5126	2.38e-002	2.075e-002
699	364.5	349.	0.5109	2.21e-002	1.926e-002
700	365.	349.5	0.509	2.02e-002	1.761e-002
701	365.5	350.	0.5135	2.47e-002	2.153e-002
702	366.	350.5	0.5147	2.59e-002	2.258e-002
703	366.5	351.	0.5108	2.2e-002	1.918e-002
704	367.	351.5	0.5174	2.86e-002	2.493e-002
705	367.5	352.	0.5118	2.3e-002	2.005e-002
706	368.	352.5	0.5141	2.53e-002	2.205e-002
707	368.5	353.	0.5135	2.47e-002	2.153e-002
708	369.	353.5	0.5132	2.44e-002	2.127e-002
709	369.5	354.	0.5135	2.47e-002	2.153e-002
710	370.	354.5	0.5126	2.38e-002	2.075e-002
711	370.5	355.	0.511	2.22e-002	1.935e-002
712	371.	355.5	0.5106	2.18e-002	1.9e-002
713	371.5	356.	0.515	2.62e-002	2.284e-002
714	372.	356.5	0.5177	2.89e-002	2.519e-002
715	372.5	357.	0.5112	2.24e-002	1.953e-002
716	373.	357.5	0.51	2.12e-002	1.848e-002
717	373.5	358.	0.516	2.72e-002	2.371e-002
718	374.	358.5	0.512	2.32e-002	2.022e-002
719	374.5	359.	0.5087	1.99e-002	1.735e-002
720	375.	359.5	0.512	2.32e-002	2.022e-002
721	375.5	360.	0.5145	2.57e-002	2.24e-002
722	376.	360.5	0.5154	2.66e-002	2.319e-002
723	376.5	361.	0.5111	2.23e-002	1.944e-002
724	377.	361.5	0.5124	2.36e-002	2.057e-002
725	377.5	362.	0.5141	2.53e-002	2.205e-002
726	378.	362.5	0.5156	2.68e-002	2.336e-002
727	378.5	363.	0.5165	2.77e-002	2.415e-002
728	379.	363.5	0.5098	2.1e-002	1.831e-002
729	379.5	364.	0.5154	2.66e-002	2.319e-002
730	380.	364.5	0.5161	2.73e-002	2.38e-002
731	380.5	365.	0.5126	2.38e-002	2.075e-002
732	381.	365.5	0.5135	2.47e-002	2.153e-002
733	381.5	366.	0.5162	2.74e-002	2.388e-002
734	382.	366.5	0.5091	2.03e-002	1.77e-002
735	382.5	367.	0.5104	2.16e-002	1.883e-002
736	383.	367.5	0.5153	2.65e-002	2.31e-002
737	383.5	368.	0.5161	2.73e-002	2.38e-002
738	384.	368.5	0.5097	2.09e-002	1.822e-002
739	384.5	369.	0.5102	2.14e-002	1.865e-002
740	385.	369.5	0.513	2.42e-002	2.109e-002
741	385.5	370.	0.5162	2.74e-002	2.388e-002
742	386.	370.5	0.513	2.42e-002	2.109e-002
743	386.5	371.	0.5091	2.03e-002	1.77e-002
744	387.	371.5	0.5103	2.15e-002	1.874e-002
745	387.5	372.	0.5139	2.51e-002	2.188e-002
746	388.	372.5	0.5105	2.17e-002	1.892e-002
747	388.5	373.	0.5151	2.63e-002	2.293e-002
748	389.	373.5	0.5147	2.59e-002	2.258e-002
749	389.5	374.	0.5115	2.27e-002	1.979e-002
750	390.	374.5	0.5111	2.23e-002	1.944e-002
751	390.5	375.	0.509	2.02e-002	1.761e-002
752	391.	375.5	0.5158	2.7e-002	2.354e-002
753	391.5	376.	0.5121	2.33e-002	2.031e-002
754	392.	376.5	0.5145	2.57e-002	2.24e-002
755	392.5	377.	0.5108	2.2e-002	1.918e-002
756	393.	377.5	0.5133	2.45e-002	2.136e-002

757	393.5	378.	0.5121	2.33e-002	2.031e-002
758	394.	378.5	0.5106	2.18e-002	1.9e-002
759	394.5	379.	0.5136	2.48e-002	2.162e-002
760	395.	379.5	0.5112	2.24e-002	1.953e-002
761	395.5	380.	0.512	2.32e-002	2.022e-002
762	396.	380.5	0.5136	2.48e-002	2.162e-002
763	396.5	381.	0.5121	2.33e-002	2.031e-002
764	397.	381.5	0.512	2.32e-002	2.022e-002
765	397.5	382.	0.5142	2.54e-002	2.214e-002
766	398.	382.5	0.5116	2.28e-002	1.987e-002
767	398.5	383.	0.5108	2.2e-002	1.918e-002
768	399.	383.5	0.5133	2.45e-002	2.136e-002
769	399.5	384.	0.5123	2.35e-002	2.048e-002
770	400.	384.5	0.5129	2.41e-002	2.101e-002
771	400.5	385.	0.5121	2.33e-002	2.031e-002
772	401.	385.5	0.5129	2.41e-002	2.101e-002
773	401.5	386.	0.5145	2.57e-002	2.24e-002
774	402.	386.5	0.5106	2.18e-002	1.9e-002
775	402.5	387.	0.5075	1.87e-002	1.63e-002
776	403.	387.5	0.5091	2.03e-002	1.77e-002
777	403.5	388.	0.5156	2.68e-002	2.336e-002
778	404.	388.5	0.513	2.42e-002	2.109e-002
779	404.5	389.	0.512	2.32e-002	2.022e-002
780	405.	389.5	0.5165	2.77e-002	2.415e-002
781	405.5	390.	0.5139	2.51e-002	2.188e-002
782	406.	390.5	0.5132	2.44e-002	2.127e-002
783	406.5	391.	0.5108	2.2e-002	1.918e-002
784	407.	391.5	0.5099	2.11e-002	1.839e-002
785	407.5	392.	0.5123	2.35e-002	2.048e-002
786	408.	392.5	0.5138	2.5e-002	2.179e-002
787	408.5	393.	0.5126	2.38e-002	2.075e-002
788	409.	393.5	0.5108	2.2e-002	1.918e-002
789	409.5	394.	0.5105	2.17e-002	1.892e-002
790	410.	394.5	0.5121	2.33e-002	2.031e-002
791	410.5	395.	0.5106	2.18e-002	1.9e-002
792	411.	395.5	0.5145	2.57e-002	2.24e-002
793	411.5	396.	0.5144	2.56e-002	2.232e-002
794	412.	396.5	0.5136	2.48e-002	2.162e-002
795	412.5	397.	0.5109	2.21e-002	1.926e-002
796	413.	397.5	0.5073	1.85e-002	1.613e-002
797	413.5	398.	0.5115	2.27e-002	1.979e-002
798	414.	398.5	0.5162	2.74e-002	2.388e-002
799	414.5	399.	0.5161	2.73e-002	2.38e-002
800	415.	399.5	0.5106	2.18e-002	1.9e-002
801	415.5	400.	0.5192	3.04e-002	2.65e-002
802	416.	400.5	0.5153	2.65e-002	2.31e-002
803	416.5	401.	0.5118	2.3e-002	2.005e-002
804	417.	401.5	0.5118	2.3e-002	2.005e-002
805	417.5	402.	0.5086	1.98e-002	1.726e-002
806	418.	402.5	0.5145	2.57e-002	2.24e-002
807	418.5	403.	0.518	2.92e-002	2.545e-002
808	419.	403.5	0.5098	2.1e-002	1.831e-002
809	419.5	404.	0.5147	2.59e-002	2.258e-002
810	420.	404.5	0.5085	1.97e-002	1.717e-002
811	420.5	405.	0.5111	2.23e-002	1.944e-002
812	421.	405.5	0.5111	2.23e-002	1.944e-002
813	421.5	406.	0.5112	2.24e-002	1.953e-002
814	422.	406.5	0.5177	2.89e-002	2.519e-002
815	422.5	407.	0.5101	2.13e-002	1.857e-002
816	423.	407.5	0.5087	1.99e-002	1.735e-002

817	423.5	408.	0.5092	2.04e-002	1.778e-002
818	424.	408.5	0.512	2.32e-002	2.022e-002
819	424.5	409.	0.5096	2.08e-002	1.813e-002
820	425.	409.5	0.5145	2.57e-002	2.24e-002
821	425.5	410.	0.5162	2.74e-002	2.388e-002
822	426.	410.5	0.5124	2.36e-002	2.057e-002
823	426.5	411.	0.512	2.32e-002	2.022e-002
824	427.	411.5	0.5135	2.47e-002	2.153e-002
825	427.5	412.	0.5127	2.39e-002	2.083e-002
826	428.	412.5	0.5114	2.26e-002	1.97e-002
827	428.5	413.	0.5084	1.96e-002	1.709e-002
828	429.	413.5	0.5114	2.26e-002	1.97e-002
829	429.5	414.	0.5159	2.71e-002	2.362e-002
830	430.	414.5	0.5154	2.66e-002	2.319e-002
831	430.5	415.	0.5113	2.25e-002	1.961e-002
832	431.	415.5	0.5093	2.05e-002	1.787e-002
833	431.5	416.	0.5099	2.11e-002	1.839e-002
834	432.	416.5	0.5162	2.74e-002	2.388e-002
835	432.5	417.	0.5087	1.99e-002	1.735e-002
836	433.	417.5	0.5092	2.04e-002	1.778e-002
837	433.5	418.	0.5109	2.21e-002	1.926e-002
838	434.	418.5	0.5177	2.89e-002	2.519e-002
839	434.5	419.	0.5117	2.29e-002	1.996e-002
840	435.	419.5	0.5115	2.27e-002	1.979e-002
841	435.5	420.	0.5158	2.7e-002	2.354e-002
842	436.	420.5	0.5118	2.3e-002	2.005e-002
843	436.5	421.	0.5086	1.98e-002	1.726e-002
844	437.	421.5	0.5104	2.16e-002	1.883e-002
845	437.5	422.	0.5096	2.08e-002	1.813e-002
846	438.	422.5	0.5153	2.65e-002	2.31e-002
847	438.5	423.	0.5124	2.36e-002	2.057e-002
848	439.	423.5	0.5112	2.24e-002	1.953e-002
849	439.5	424.	0.5084	1.96e-002	1.709e-002
850	440.	424.5	0.5104	2.16e-002	1.883e-002
851	440.5	425.	0.5115	2.27e-002	1.979e-002
852	441.	425.5	0.5106	2.18e-002	1.9e-002
853	441.5	426.	0.5113	2.25e-002	1.961e-002
854	442.	426.5	0.5135	2.47e-002	2.153e-002
855	442.5	427.	0.5103	2.15e-002	1.874e-002
856	443.	427.5	0.5114	2.26e-002	1.97e-002
857	443.5	428.	0.5126	2.38e-002	2.075e-002
858	444.	428.5	0.5141	2.53e-002	2.205e-002
859	444.5	429.	0.5083	1.95e-002	1.7e-002
860	445.	429.5	0.5101	2.13e-002	1.857e-002
861	445.5	430.	0.5105	2.17e-002	1.892e-002
862	446.	430.5	0.5108	2.2e-002	1.918e-002
863	446.5	431.	0.509	2.02e-002	1.761e-002
864	447.	431.5	0.5115	2.27e-002	1.979e-002
865	447.5	432.	0.5075	1.87e-002	1.63e-002
866	448.	432.5	0.51	2.12e-002	1.848e-002
867	448.5	433.	0.5086	1.98e-002	1.726e-002
868	449.	433.5	0.507	1.82e-002	1.586e-002
869	449.5	434.	0.5121	2.33e-002	2.031e-002
870	450.	434.5	0.5158	2.7e-002	2.354e-002
871	450.5	435.	0.5133	2.45e-002	2.136e-002
872	451.	435.5	0.5082	1.94e-002	1.691e-002
873	451.5	436.	0.5129	2.41e-002	2.101e-002
874	452.	436.5	0.5108	2.2e-002	1.918e-002
875	452.5	437.	0.5112	2.24e-002	1.953e-002
876	453.	437.5	0.5094	2.06e-002	1.796e-002

877	453.5	438.	0.5162	2.74e-002	2.388e-002
878	454.	438.5	0.5097	2.09e-002	1.822e-002
879	454.5	439.	0.5109	2.21e-002	1.926e-002
880	455.	439.5	0.5101	2.13e-002	1.857e-002
881	455.5	440.	0.5135	2.47e-002	2.153e-002
882	456.	440.5	0.513	2.42e-002	2.109e-002
883	456.5	441.	0.5135	2.47e-002	2.153e-002
884	457.	441.5	0.5117	2.29e-002	1.996e-002
885	457.5	442.	0.5105	2.17e-002	1.892e-002
886	458.	442.5	0.5082	1.94e-002	1.691e-002
887	458.5	443.	0.5109	2.21e-002	1.926e-002
888	459.	443.5	0.508	1.92e-002	1.674e-002
889	459.5	444.	0.5121	2.33e-002	2.031e-002
890	460.	444.5	0.5114	2.26e-002	1.97e-002
891	460.5	445.	0.5082	1.94e-002	1.691e-002
892	461.	445.5	0.5114	2.26e-002	1.97e-002
893	461.5	446.	0.5098	2.1e-002	1.831e-002
894	462.	446.5	0.508	1.92e-002	1.674e-002
895	462.5	447.	0.5076	1.88e-002	1.639e-002
896	463.	447.5	0.5126	2.38e-002	2.075e-002
897	463.5	448.	0.5108	2.2e-002	1.918e-002
898	464.	448.5	0.5128	2.4e-002	2.092e-002
899	464.5	449.	0.5087	1.99e-002	1.735e-002
900	465.	449.5	0.5136	2.48e-002	2.162e-002
901	465.5	450.	0.5092	2.04e-002	1.778e-002
902	466.	450.5	0.5117	2.29e-002	1.996e-002
903	466.5	451.	0.5123	2.35e-002	2.048e-002
904	467.	451.5	0.5084	1.96e-002	1.709e-002
905	467.5	452.	0.5068	1.8e-002	1.569e-002
906	468.	452.5	0.5108	2.2e-002	1.918e-002
907	468.5	453.	0.5096	2.08e-002	1.813e-002
908	469.	453.5	0.5118	2.3e-002	2.005e-002
909	469.5	454.	0.5065	1.77e-002	1.543e-002
910	470.	454.5	0.5056	1.68e-002	1.464e-002
911	470.5	455.	0.5132	2.44e-002	2.127e-002
912	471.	455.5	0.51	2.12e-002	1.848e-002
913	471.5	456.	0.5087	1.99e-002	1.735e-002
914	472.	456.5	0.5082	1.94e-002	1.691e-002
915	472.5	457.	0.511	2.22e-002	1.935e-002
916	473.	457.5	0.509	2.02e-002	1.761e-002
917	473.5	458.	0.5127	2.39e-002	2.083e-002
918	474.	458.5	0.5108	2.2e-002	1.918e-002
919	474.5	459.	0.5107	2.19e-002	1.909e-002
920	475.	459.5	0.507	1.82e-002	1.586e-002
921	475.5	460.	0.5084	1.96e-002	1.709e-002
922	476.	460.5	0.5093	2.05e-002	1.787e-002
923	476.5	461.	0.5078	1.9e-002	1.656e-002
924	477.	461.5	0.5108	2.2e-002	1.918e-002
925	477.5	462.	0.5124	2.36e-002	2.057e-002
926	478.	462.5	0.5087	1.99e-002	1.735e-002
927	478.5	463.	0.5092	2.04e-002	1.778e-002
928	479.	463.5	0.514	2.52e-002	2.197e-002
929	479.5	464.	0.5121	2.33e-002	2.031e-002
930	480.	464.5	0.5147	2.59e-002	2.258e-002
931	480.5	465.	0.5103	2.15e-002	1.874e-002
932	481.	465.5	0.5099	2.11e-002	1.839e-002
933	481.5	466.	0.5169	2.81e-002	2.449e-002
934	482.	466.5	0.5085	1.97e-002	1.717e-002
935	482.5	467.	0.5096	2.08e-002	1.813e-002
936	483.	467.5	0.5102	2.14e-002	1.865e-002

937	483.5	468.	0.5071	1.83e-002	1.595e-002
938	484.	468.5	0.508	1.92e-002	1.674e-002
939	484.5	469.	0.512	2.32e-002	2.022e-002
940	485.	469.5	0.5112	2.24e-002	1.953e-002
941	485.5	470.	0.511	2.22e-002	1.935e-002
942	486.	470.5	0.5103	2.15e-002	1.874e-002
943	486.5	471.	0.5135	2.47e-002	2.153e-002
944	487.	471.5	0.5084	1.96e-002	1.709e-002
945	487.5	472.	0.5136	2.48e-002	2.162e-002
946	488.	472.5	0.5151	2.63e-002	2.293e-002
947	488.5	473.	0.5108	2.2e-002	1.918e-002
948	489.	473.5	0.5096	2.08e-002	1.813e-002
949	489.5	474.	0.5087	1.99e-002	1.735e-002
950	490.	474.5	0.5108	2.2e-002	1.918e-002
951	490.5	475.	0.5084	1.96e-002	1.709e-002
952	491.	475.5	0.512	2.32e-002	2.022e-002
953	491.5	476.	0.5135	2.47e-002	2.153e-002
954	492.	476.5	0.5054	1.66e-002	1.447e-002
955	492.5	477.	0.5051	1.63e-002	1.421e-002
956	493.	477.5	0.5115	2.27e-002	1.979e-002
957	493.5	478.	0.5172	2.84e-002	2.476e-002
958	494.	478.5	0.5124	2.36e-002	2.057e-002
959	494.5	479.	0.5106	2.18e-002	1.9e-002
960	495.	479.5	0.5129	2.41e-002	2.101e-002
961	495.5	480.	0.5093	2.05e-002	1.787e-002
962	496.	480.5	0.5077	1.89e-002	1.647e-002
963	496.5	481.	0.5086	1.98e-002	1.726e-002
964	497.	481.5	0.5081	1.93e-002	1.682e-002
965	497.5	482.	0.5095	2.07e-002	1.804e-002
966	498.	482.5	0.5093	2.05e-002	1.787e-002
967	498.5	483.	0.5094	2.06e-002	1.796e-002
968	499.	483.5	0.5089	2.01e-002	1.752e-002
969	499.5	484.	0.5099	2.11e-002	1.839e-002
970	500.	484.5	0.5147	2.59e-002	2.258e-002
971	500.5	485.	0.5086	1.98e-002	1.726e-002
972	501.	485.5	0.5079	1.91e-002	1.665e-002
973	501.5	486.	0.5144	2.56e-002	2.232e-002
974	502.	486.5	0.509	2.02e-002	1.761e-002
975	502.5	487.	0.5141	2.53e-002	2.205e-002
976	503.	487.5	0.5111	2.23e-002	1.944e-002
977	503.5	488.	0.5109	2.21e-002	1.926e-002
978	504.	488.5	0.5099	2.11e-002	1.839e-002
979	504.5	489.	0.5136	2.48e-002	2.162e-002
980	505.	489.5	0.5084	1.96e-002	1.709e-002
981	505.5	490.	0.5111	2.23e-002	1.944e-002
982	506.	490.5	0.5161	2.73e-002	2.38e-002
983	506.5	491.	0.5112	2.24e-002	1.953e-002
984	507.	491.5	0.5075	1.87e-002	1.63e-002
985	507.5	492.	0.5117	2.29e-002	1.996e-002
986	508.	492.5	0.5121	2.33e-002	2.031e-002
987	508.5	493.	0.5114	2.26e-002	1.97e-002
988	509.	493.5	0.5108	2.2e-002	1.918e-002
989	509.5	494.	0.5099	2.11e-002	1.839e-002
990	510.	494.5	0.5111	2.23e-002	1.944e-002
991	510.5	495.	0.507	1.82e-002	1.586e-002
992	511.	495.5	0.5098	2.1e-002	1.831e-002
993	511.5	496.	0.5074	1.86e-002	1.621e-002
994	512.	496.5	0.506	1.72e-002	1.499e-002
995	512.5	497.	0.5127	2.39e-002	2.083e-002
996	513.	497.5	0.507	1.82e-002	1.586e-002

997	513.5	498.	0.5106	2.18e-002	1.9e-002
998	514.	498.5	0.5082	1.94e-002	1.691e-002
999	514.5	499.	0.5078	1.9e-002	1.656e-002
1000	515.	499.5	0.5093	2.05e-002	1.787e-002
1001	515.5	500.	0.5121	2.33e-002	2.031e-002
1002	516.	500.5	0.5067	1.79e-002	1.56e-002
1003	516.5	501.	0.5097	2.09e-002	1.822e-002
1004	517.	501.5	0.5088	2.e-002	1.743e-002
1005	517.5	502.	0.5142	2.54e-002	2.214e-002
1006	518.	502.5	0.5063	1.75e-002	1.525e-002
1007	518.5	503.	0.5086	1.98e-002	1.726e-002
1008	519.	503.5	0.5081	1.93e-002	1.682e-002
1009	519.5	504.	0.5093	2.05e-002	1.787e-002
1010	520.	504.5	0.5076	1.88e-002	1.639e-002
1011	520.5	505.	0.5101	2.13e-002	1.857e-002
1012	521.	505.5	0.5115	2.27e-002	1.979e-002
1013	521.5	506.	0.5076	1.88e-002	1.639e-002
1014	522.	506.5	0.5081	1.93e-002	1.682e-002
1015	522.5	507.	0.5118	2.3e-002	2.005e-002
1016	523.	507.5	0.5148	2.6e-002	2.266e-002
1017	523.5	508.	0.5086	1.98e-002	1.726e-002
1018	524.	508.5	0.5093	2.05e-002	1.787e-002
1019	524.5	509.	0.5105	2.17e-002	1.892e-002
1020	525.	509.5	0.5094	2.06e-002	1.796e-002
1021	525.5	510.	0.5139	2.51e-002	2.188e-002
1022	526.	510.5	0.5039	1.51e-002	1.316e-002
1023	526.5	511.	0.5065	1.77e-002	1.543e-002
1024	527.	511.5	0.5121	2.33e-002	2.031e-002
1025	527.5	512.	0.5086	1.98e-002	1.726e-002
1026	528.	512.5	0.5093	2.05e-002	1.787e-002
1027	528.5	513.	0.5141	2.53e-002	2.205e-002
1028	529.	513.5	0.5108	2.2e-002	1.918e-002
1029	529.5	514.	0.515	2.62e-002	2.284e-002
1030	530.	514.5	0.5126	2.38e-002	2.075e-002
1031	530.5	515.	0.5094	2.06e-002	1.796e-002
1032	531.	515.5	0.5072	1.84e-002	1.604e-002
1033	531.5	516.	0.5108	2.2e-002	1.918e-002
1034	532.	516.5	0.5124	2.36e-002	2.057e-002
1035	532.5	517.	0.506	1.72e-002	1.499e-002
1036	533.	517.5	0.5103	2.15e-002	1.874e-002
1037	533.5	518.	0.5122	2.34e-002	2.04e-002
1038	534.	518.5	0.5094	2.06e-002	1.796e-002
1039	534.5	519.	0.5072	1.84e-002	1.604e-002
1040	535.	519.5	0.509	2.02e-002	1.761e-002
1041	535.5	520.	0.5096	2.08e-002	1.813e-002
1042	536.	520.5	0.5054	1.66e-002	1.447e-002
1043	536.5	521.	0.5081	1.93e-002	1.682e-002
1044	537.	521.5	0.5089	2.01e-002	1.752e-002
1045	537.5	522.	0.5068	1.8e-002	1.569e-002
1046	538.	522.5	0.5116	2.28e-002	1.987e-002
1047	538.5	523.	0.5154	2.66e-002	2.319e-002
1048	539.	523.5	0.5111	2.23e-002	1.944e-002
1049	539.5	524.	0.5048	1.6e-002	1.395e-002
1050	540.	524.5	0.5078	1.9e-002	1.656e-002
1051	540.5	525.	0.5129	2.41e-002	2.101e-002
1052	541.	525.5	0.505	1.62e-002	1.412e-002
1053	541.5	526.	0.5096	2.08e-002	1.813e-002
1054	542.	526.5	0.5115	2.27e-002	1.979e-002
1055	542.5	527.	0.509	2.02e-002	1.761e-002
1056	543.	527.5	0.5067	1.79e-002	1.56e-002

1057	543.5	528.	0.5075	1.87e-002	1.63e-002
1058	544.	528.5	0.5048	1.6e-002	1.395e-002
1059	544.5	529.	0.5045	1.57e-002	1.369e-002
1060	545.	529.5	0.5043	1.55e-002	1.351e-002
1061	545.5	530.	0.5078	1.9e-002	1.656e-002
1062	546.	530.5	0.5111	2.23e-002	1.944e-002
1063	546.5	531.	0.5075	1.87e-002	1.63e-002
1064	547.	531.5	0.5058	1.7e-002	1.482e-002
1065	547.5	532.	0.5118	2.3e-002	2.005e-002
1066	548.	532.5	0.5102	2.14e-002	1.865e-002
1067	548.5	533.	0.5068	1.8e-002	1.569e-002
1068	549.	533.5	0.5054	1.66e-002	1.447e-002
1069	549.5	534.	0.5098	2.1e-002	1.831e-002
1070	550.	534.5	0.5145	2.57e-002	2.24e-002
1071	550.5	535.	0.5093	2.05e-002	1.787e-002
1072	551.	535.5	0.5097	2.09e-002	1.822e-002
1073	551.5	536.	0.5105	2.17e-002	1.892e-002
1074	552.	536.5	0.5129	2.41e-002	2.101e-002
1075	552.5	537.	0.5068	1.8e-002	1.569e-002
1076	553.	537.5	0.5115	2.27e-002	1.979e-002
1077	553.5	538.	0.51	2.12e-002	1.848e-002
1078	554.	538.5	0.5075	1.87e-002	1.63e-002
1079	554.5	539.	0.5075	1.87e-002	1.63e-002
1080	555.	539.5	0.5108	2.2e-002	1.918e-002
1081	555.5	540.	0.5089	2.01e-002	1.752e-002
1082	556.	540.5	0.5063	1.75e-002	1.525e-002
1083	556.5	541.	0.5087	1.99e-002	1.735e-002
1084	557.	541.5	0.5061	1.73e-002	1.508e-002
1085	557.5	542.	0.5078	1.9e-002	1.656e-002
1086	558.	542.5	0.5087	1.99e-002	1.735e-002
1087	558.5	543.	0.507	1.82e-002	1.586e-002
1088	559.	543.5	0.5084	1.96e-002	1.709e-002
1089	559.5	544.	0.5082	1.94e-002	1.691e-002
1090	560.	544.5	0.5084	1.96e-002	1.709e-002
1091	560.5	545.	0.509	2.02e-002	1.761e-002
1092	561.	545.5	0.5102	2.14e-002	1.865e-002
1093	561.5	546.	0.5072	1.84e-002	1.604e-002
1094	562.	546.5	0.5087	1.99e-002	1.735e-002
1095	562.5	547.	0.505	1.62e-002	1.412e-002
1096	563.	547.5	0.5091	2.03e-002	1.77e-002
1097	563.5	548.	0.5072	1.84e-002	1.604e-002
1098	564.	548.5	0.5136	2.48e-002	2.162e-002
1099	564.5	549.	0.509	2.02e-002	1.761e-002
1100	565.	549.5	0.5114	2.26e-002	1.97e-002
1101	565.5	550.	0.508	1.92e-002	1.674e-002
1102	566.	550.5	0.506	1.72e-002	1.499e-002
1103	566.5	551.	0.5076	1.88e-002	1.639e-002
1104	567.	551.5	0.507	1.82e-002	1.586e-002
1105	567.5	552.	0.5084	1.96e-002	1.709e-002
1106	568.	552.5	0.5078	1.9e-002	1.656e-002
1107	568.5	553.	0.5071	1.83e-002	1.595e-002
1108	569.	553.5	0.5073	1.85e-002	1.613e-002
1109	569.5	554.	0.51	2.12e-002	1.848e-002
1110	570.	554.5	0.5072	1.84e-002	1.604e-002
1111	570.5	555.	0.5102	2.14e-002	1.865e-002
1112	571.	555.5	0.5086	1.98e-002	1.726e-002
1113	571.5	556.	0.5093	2.05e-002	1.787e-002
1114	572.	556.5	0.5103	2.15e-002	1.874e-002
1115	572.5	557.	0.5068	1.8e-002	1.569e-002
1116	573.	557.5	0.5086	1.98e-002	1.726e-002

1117	573.5	558.	0.5086	1.98e-002	1.726e-002
1118	574.	558.5	0.5096	2.08e-002	1.813e-002
1119	574.5	559.	0.5074	1.86e-002	1.621e-002
1120	575.	559.5	0.5099	2.11e-002	1.839e-002
1121	575.5	560.	0.5127	2.39e-002	2.083e-002
1122	576.	560.5	0.5045	1.57e-002	1.369e-002
1123	576.5	561.	0.5071	1.83e-002	1.595e-002
1124	577.	561.5	0.5054	1.66e-002	1.447e-002
1125	577.5	562.	0.5093	2.05e-002	1.787e-002
1126	578.	562.5	0.5072	1.84e-002	1.604e-002
1127	578.5	563.	0.5108	2.2e-002	1.918e-002
1128	579.	563.5	0.5032	1.44e-002	1.255e-002
1129	579.5	564.	0.5092	2.04e-002	1.778e-002
1130	580.	564.5	0.5051	1.63e-002	1.421e-002
1131	580.5	565.	0.5122	2.34e-002	2.04e-002
1132	581.	565.5	0.505	1.62e-002	1.412e-002
1133	581.5	566.	0.5129	2.41e-002	2.101e-002
1134	582.	566.5	0.5072	1.84e-002	1.604e-002
1135	582.5	567.	0.5114	2.26e-002	1.97e-002
1136	583.	567.5	0.5095	2.07e-002	1.804e-002
1137	583.5	568.	0.512	2.32e-002	2.022e-002
1138	584.	568.5	0.505	1.62e-002	1.412e-002
1139	584.5	569.	0.5109	2.21e-002	1.926e-002
1140	585.	569.5	0.5054	1.66e-002	1.447e-002
1141	585.5	570.	0.5088	2.e-002	1.743e-002
1142	586.	570.5	0.51	2.12e-002	1.848e-002
1143	586.5	571.	0.506	1.72e-002	1.499e-002
1144	587.	571.5	0.5085	1.97e-002	1.717e-002
1145	587.5	572.	0.5068	1.8e-002	1.569e-002
1146	588.	572.5	0.5078	1.9e-002	1.656e-002
1147	588.5	573.	0.5116	2.28e-002	1.987e-002
1148	589.	573.5	0.5065	1.77e-002	1.543e-002
1149	589.5	574.	0.5102	2.14e-002	1.865e-002
1150	590.	574.5	0.5117	2.29e-002	1.996e-002
1151	590.5	575.	0.5056	1.68e-002	1.464e-002
1152	591.	575.5	0.5081	1.93e-002	1.682e-002
1153	591.5	576.	0.5057	1.69e-002	1.473e-002
1154	592.	576.5	0.507	1.82e-002	1.586e-002
1155	592.5	577.	0.5077	1.89e-002	1.647e-002
1156	593.	577.5	0.5072	1.84e-002	1.604e-002
1157	593.5	578.	0.5102	2.14e-002	1.865e-002
1158	594.	578.5	0.506	1.72e-002	1.499e-002
1159	594.5	579.	0.506	1.72e-002	1.499e-002
1160	595.	579.5	0.509	2.02e-002	1.761e-002
1161	595.5	580.	0.5093	2.05e-002	1.787e-002
1162	596.	580.5	0.5114	2.26e-002	1.97e-002
1163	596.5	581.	0.5071	1.83e-002	1.595e-002
1164	597.	581.5	0.5056	1.68e-002	1.464e-002
1165	597.5	582.	0.5088	2.e-002	1.743e-002
1166	598.	582.5	0.5072	1.84e-002	1.604e-002
1167	598.5	583.	0.5056	1.68e-002	1.464e-002
1168	599.	583.5	0.5076	1.88e-002	1.639e-002
1169	599.5	584.	0.5131	2.43e-002	2.118e-002
1170	600.	584.5	0.5082	1.94e-002	1.691e-002
1171	600.5	585.	0.5084	1.96e-002	1.709e-002
1172	601.	585.5	0.5097	2.09e-002	1.822e-002
1173	601.5	586.	0.5111	2.23e-002	1.944e-002
1174	602.	586.5	0.5075	1.87e-002	1.63e-002
1175	602.5	587.	0.5087	1.99e-002	1.735e-002
1176	603.	587.5	0.5066	1.78e-002	1.552e-002

1177	603.5	588.	0.5072	1.84e-002	1.604e-002
1178	604.	588.5	0.5138	2.5e-002	2.179e-002
1179	604.5	589.	0.507	1.82e-002	1.586e-002
1180	605.	589.5	0.5066	1.78e-002	1.552e-002
1181	605.5	590.	0.5083	1.95e-002	1.7e-002
1182	606.	590.5	0.5104	2.16e-002	1.883e-002
1183	606.5	591.	0.5067	1.79e-002	1.56e-002
1184	607.	591.5	0.5091	2.03e-002	1.77e-002
1185	607.5	592.	0.5106	2.18e-002	1.9e-002
1186	608.	592.5	0.5033	1.45e-002	1.264e-002
1187	608.5	593.	0.5081	1.93e-002	1.682e-002
1188	609.	593.5	0.5105	2.17e-002	1.892e-002
1189	609.5	594.	0.5068	1.8e-002	1.569e-002
1190	610.	594.5	0.5063	1.75e-002	1.525e-002
1191	610.5	595.	0.5078	1.9e-002	1.656e-002
1192	611.	595.5	0.5148	2.6e-002	2.266e-002
1193	611.5	596.	0.5092	2.04e-002	1.778e-002
1194	612.	596.5	0.5078	1.9e-002	1.656e-002
1195	612.5	597.	0.5026	1.38e-002	1.203e-002
1196	613.	597.5	0.5076	1.88e-002	1.639e-002
1197	613.5	598.	0.5044	1.56e-002	1.36e-002
1198	614.	598.5	0.5066	1.78e-002	1.552e-002
1199	614.5	599.	0.5084	1.96e-002	1.709e-002
1200	615.	599.5	0.5072	1.84e-002	1.604e-002
1201	615.5	600.	0.5078	1.9e-002	1.656e-002
1202	616.	600.5	0.5092	2.04e-002	1.778e-002
1203	616.5	601.	0.5075	1.87e-002	1.63e-002
1204	617.	601.5	0.5077	1.89e-002	1.647e-002
1205	617.5	602.	0.5044	1.56e-002	1.36e-002
1206	618.	602.5	0.5108	2.2e-002	1.918e-002
1207	618.5	603.	0.5036	1.48e-002	1.29e-002
1208	619.	603.5	0.51	2.12e-002	1.848e-002
1209	619.5	604.	0.506	1.72e-002	1.499e-002
1210	620.	604.5	0.5081	1.93e-002	1.682e-002
1211	620.5	605.	0.5087	1.99e-002	1.735e-002
1212	621.	605.5	0.5043	1.55e-002	1.351e-002
1213	621.5	606.	0.5117	2.29e-002	1.996e-002
1214	622.	606.5	0.505	1.62e-002	1.412e-002
1215	622.5	607.	0.5083	1.95e-002	1.7e-002
1216	623.	607.5	0.5036	1.48e-002	1.29e-002
1217	623.5	608.	0.507	1.82e-002	1.586e-002
1218	624.	608.5	0.5129	2.41e-002	2.101e-002
1219	624.5	609.	0.5038	1.5e-002	1.308e-002
1220	625.	609.5	0.5032	1.44e-002	1.255e-002
1221	625.5	610.	0.5084	1.96e-002	1.709e-002
1222	626.	610.5	0.5099	2.11e-002	1.839e-002
1223	626.5	611.	0.5048	1.6e-002	1.395e-002
1224	627.	611.5	0.5093	2.05e-002	1.787e-002
1225	627.5	612.	0.5084	1.96e-002	1.709e-002
1226	628.	612.5	0.5133	2.45e-002	2.136e-002
1227	628.5	613.	0.5124	2.36e-002	2.057e-002
1228	629.	613.5	0.5081	1.93e-002	1.682e-002
1229	629.5	614.	0.507	1.82e-002	1.586e-002
1230	630.	614.5	0.5114	2.26e-002	1.97e-002
1231	630.5	615.	0.5054	1.66e-002	1.447e-002
1232	631.	615.5	0.5087	1.99e-002	1.735e-002
1233	631.5	616.	0.5096	2.08e-002	1.813e-002
1234	632.	616.5	0.5069	1.81e-002	1.578e-002
1235	632.5	617.	0.5065	1.77e-002	1.543e-002
1236	633.	617.5	0.5075	1.87e-002	1.63e-002

1237	633.5	618.	0.5039	1.51e-002	1.316e-002
1238	634.	618.5	0.5139	2.51e-002	2.188e-002
1239	634.5	619.	0.5072	1.84e-002	1.604e-002
1240	635.	619.5	0.5097	2.09e-002	1.822e-002
1241	635.5	620.	0.5065	1.77e-002	1.543e-002
1242	636.	620.5	0.5164	2.76e-002	2.406e-002
1243	636.5	621.	0.5045	1.57e-002	1.369e-002
1244	637.	621.5	0.5153	2.65e-002	2.31e-002
1245	637.5	622.	0.5055	1.67e-002	1.456e-002
1246	638.	622.5	0.5102	2.14e-002	1.865e-002
1247	638.5	623.	0.5062	1.74e-002	1.517e-002
1248	639.	623.5	0.5065	1.77e-002	1.543e-002
1249	639.5	624.	0.5068	1.8e-002	1.569e-002
1250	640.	624.5	0.5075	1.87e-002	1.63e-002
1251	640.5	625.	0.5117	2.29e-002	1.996e-002
1252	641.	625.5	0.5097	2.09e-002	1.822e-002
1253	641.5	626.	0.5074	1.86e-002	1.621e-002
1254	642.	626.5	0.5109	2.21e-002	1.926e-002
1255	642.5	627.	0.5063	1.75e-002	1.525e-002
1256	643.	627.5	0.5108	2.2e-002	1.918e-002
1257	643.5	628.	0.5054	1.66e-002	1.447e-002
1258	644.	628.5	0.5034	1.46e-002	1.273e-002
1259	644.5	629.	0.508	1.92e-002	1.674e-002
1260	645.	629.5	0.5066	1.78e-002	1.552e-002
1261	645.5	630.	0.5115	2.27e-002	1.979e-002
1262	646.	630.5	0.5091	2.03e-002	1.77e-002
1263	646.5	631.	0.5053	1.65e-002	1.438e-002
1264	647.	631.5	0.5088	2.e-002	1.743e-002
1265	647.5	632.	0.509	2.02e-002	1.761e-002
1266	648.	632.5	0.5081	1.93e-002	1.682e-002
1267	648.5	633.	0.5097	2.09e-002	1.822e-002
1268	649.	633.5	0.5042	1.54e-002	1.342e-002
1269	649.5	634.	0.5072	1.84e-002	1.604e-002
1270	650.	634.5	0.5051	1.63e-002	1.421e-002
1271	650.5	635.	0.5032	1.44e-002	1.255e-002
1272	651.	635.5	0.5065	1.77e-002	1.543e-002
1273	651.5	636.	0.5087	1.99e-002	1.735e-002
1274	652.	636.5	0.5103	2.15e-002	1.874e-002
1275	652.5	637.	0.5066	1.78e-002	1.552e-002
1276	653.	637.5	0.5025	1.37e-002	1.194e-002
1277	653.5	638.	0.5063	1.75e-002	1.525e-002
1278	654.	638.5	0.5123	2.35e-002	2.048e-002
1279	654.5	639.	0.5074	1.86e-002	1.621e-002
1280	655.	639.5	0.5039	1.51e-002	1.316e-002
1281	655.5	640.	0.5057	1.69e-002	1.473e-002
1282	656.	640.5	0.5105	2.17e-002	1.892e-002
1283	656.5	641.	0.5084	1.96e-002	1.709e-002
1284	657.	641.5	0.5105	2.17e-002	1.892e-002
1285	657.5	642.	0.5056	1.68e-002	1.464e-002
1286	658.	642.5	0.5041	1.53e-002	1.334e-002
1287	658.5	643.	0.5038	1.5e-002	1.308e-002
1288	659.	643.5	0.5057	1.69e-002	1.473e-002
1289	659.5	644.	0.5069	1.81e-002	1.578e-002
1290	660.	644.5	0.5063	1.75e-002	1.525e-002
1291	660.5	645.	0.5032	1.44e-002	1.255e-002
1292	661.	645.5	0.5073	1.85e-002	1.613e-002
1293	661.5	646.	0.5111	2.23e-002	1.944e-002
1294	662.	646.5	0.5105	2.17e-002	1.892e-002
1295	662.5	647.	0.5105	2.17e-002	1.892e-002
1296	663.	647.5	0.5058	1.7e-002	1.482e-002

1297	663.5	648.	0.5086	1.98e-002	1.726e-002
1298	664.	648.5	0.5076	1.88e-002	1.639e-002
1299	664.5	649.	0.5053	1.65e-002	1.438e-002
1300	665.	649.5	0.5081	1.93e-002	1.682e-002
1301	665.5	650.	0.5088	2.e-002	1.743e-002
1302	666.	650.5	0.505	1.62e-002	1.412e-002
1303	666.5	651.	0.509	2.02e-002	1.761e-002
1304	667.	651.5	0.5069	1.81e-002	1.578e-002
1305	667.5	652.	0.505	1.62e-002	1.412e-002
1306	668.	652.5	0.5115	2.27e-002	1.979e-002
1307	668.5	653.	0.5085	1.97e-002	1.717e-002
1308	669.	653.5	0.5008	1.2e-002	1.046e-002
1309	669.5	654.	0.5115	2.27e-002	1.979e-002
1310	670.	654.5	0.5094	2.06e-002	1.796e-002
1311	670.5	655.	0.5041	1.53e-002	1.334e-002
1312	671.	655.5	0.5101	2.13e-002	1.857e-002
1313	671.5	656.	0.5051	1.63e-002	1.421e-002
1314	672.	656.5	0.5082	1.94e-002	1.691e-002
1315	672.5	657.	0.5087	1.99e-002	1.735e-002
1316	673.	657.5	0.5062	1.74e-002	1.517e-002
1317	673.5	658.	0.5076	1.88e-002	1.639e-002
1318	674.	658.5	0.5062	1.74e-002	1.517e-002
1319	674.5	659.	0.5086	1.98e-002	1.726e-002
1320	675.	659.5	0.5065	1.77e-002	1.543e-002
1321	675.5	660.	0.5124	2.36e-002	2.057e-002
1322	676.	660.5	0.5024	1.36e-002	1.185e-002
1323	676.5	661.	0.5027	1.39e-002	1.212e-002
1324	677.	661.5	0.5072	1.84e-002	1.604e-002
1325	677.5	662.	0.5066	1.78e-002	1.552e-002
1326	678.	662.5	0.5108	2.2e-002	1.918e-002
1327	678.5	663.	0.5054	1.66e-002	1.447e-002
1328	679.	663.5	0.5035	1.47e-002	1.281e-002
1329	679.5	664.	0.5045	1.57e-002	1.369e-002
1330	680.	664.5	0.5057	1.69e-002	1.473e-002
1331	680.5	665.	0.5104	2.16e-002	1.883e-002
1332	681.	665.5	0.5056	1.68e-002	1.464e-002
1333	681.5	666.	0.5086	1.98e-002	1.726e-002
1334	682.	666.5	0.5096	2.08e-002	1.813e-002
1335	682.5	667.	0.5071	1.83e-002	1.595e-002
1336	683.	667.5	0.5084	1.96e-002	1.709e-002
1337	683.5	668.	0.5087	1.99e-002	1.735e-002
1338	684.	668.5	0.5035	1.47e-002	1.281e-002
1339	684.5	669.	0.5047	1.59e-002	1.386e-002
1340	685.	669.5	0.506	1.72e-002	1.499e-002
1341	685.5	670.	0.5077	1.89e-002	1.647e-002
1342	686.	670.5	0.5068	1.8e-002	1.569e-002
1343	686.5	671.	0.5033	1.45e-002	1.264e-002
1344	687.	671.5	0.5036	1.48e-002	1.29e-002
1345	687.5	672.	0.5095	2.07e-002	1.804e-002
1346	688.	672.5	0.5057	1.69e-002	1.473e-002
1347	688.5	673.	0.5109	2.21e-002	1.926e-002
1348	689.	673.5	0.5063	1.75e-002	1.525e-002
1349	689.5	674.	0.5084	1.96e-002	1.709e-002
1350	690.	674.5	0.5059	1.71e-002	1.491e-002
1351	690.5	675.	0.5092	2.04e-002	1.778e-002
1352	691.	675.5	0.5062	1.74e-002	1.517e-002
1353	691.5	676.	0.5099	2.11e-002	1.839e-002
1354	692.	676.5	0.5047	1.59e-002	1.386e-002
1355	692.5	677.	0.5042	1.54e-002	1.342e-002
1356	693.	677.5	0.5045	1.57e-002	1.369e-002

1357	693.5	678.	0.5114	2.26e-002	1.97e-002
1358	694.	678.5	0.5083	1.95e-002	1.7e-002
1359	694.5	679.	0.506	1.72e-002	1.499e-002
1360	695.	679.5	0.5089	2.01e-002	1.752e-002
1361	695.5	680.	0.5118	2.3e-002	2.005e-002
1362	696.	680.5	0.5111	2.23e-002	1.944e-002
1363	696.5	681.	0.5036	1.48e-002	1.29e-002
1364	697.	681.5	0.5051	1.63e-002	1.421e-002
1365	697.5	682.	0.5094	2.06e-002	1.796e-002
1366	698.	682.5	0.5117	2.29e-002	1.996e-002
1367	698.5	683.	0.5061	1.73e-002	1.508e-002
1368	699.	683.5	0.5066	1.78e-002	1.552e-002
1369	699.5	684.	0.507	1.82e-002	1.586e-002
1370	700.	684.5	0.5066	1.78e-002	1.552e-002
1371	700.5	685.	0.5051	1.63e-002	1.421e-002
1372	701.	685.5	0.505	1.62e-002	1.412e-002
1373	701.5	686.	0.5107	2.19e-002	1.909e-002
1374	702.	686.5	0.5059	1.71e-002	1.491e-002
1375	702.5	687.	0.5054	1.66e-002	1.447e-002
1376	703.	687.5	0.51	2.12e-002	1.848e-002
1377	703.5	688.	0.5089	2.01e-002	1.752e-002
1378	704.	688.5	0.5102	2.14e-002	1.865e-002
1379	704.5	689.	0.506	1.72e-002	1.499e-002
1380	705.	689.5	0.5052	1.64e-002	1.43e-002
1381	705.5	690.	0.5035	1.47e-002	1.281e-002
1382	706.	690.5	0.5035	1.47e-002	1.281e-002
1383	706.5	691.	0.5066	1.78e-002	1.552e-002
1384	707.	691.5	0.5084	1.96e-002	1.709e-002
1385	707.5	692.	0.5057	1.69e-002	1.473e-002
1386	708.	692.5	0.5042	1.54e-002	1.342e-002
1387	708.5	693.	0.5108	2.2e-002	1.918e-002
1388	709.	693.5	0.5071	1.83e-002	1.595e-002
1389	709.5	694.	0.5012	1.24e-002	1.081e-002
1390	710.	694.5	0.5084	1.96e-002	1.709e-002
1391	710.5	695.	0.5059	1.71e-002	1.491e-002
1392	711.	695.5	0.5071	1.83e-002	1.595e-002
1393	711.5	696.	0.5074	1.86e-002	1.621e-002
1394	712.	696.5	0.5045	1.57e-002	1.369e-002
1395	712.5	697.	0.5047	1.59e-002	1.386e-002
1396	713.	697.5	0.5109	2.21e-002	1.926e-002
1397	713.5	698.	0.5053	1.65e-002	1.438e-002
1398	714.	698.5	0.5029	1.41e-002	1.229e-002
1399	714.5	699.	0.5059	1.71e-002	1.491e-002
1400	715.	699.5	0.5054	1.66e-002	1.447e-002
1401	715.5	700.	0.5066	1.78e-002	1.552e-002
1402	716.	700.5	0.509	2.02e-002	1.761e-002
1403	716.5	701.	0.5012	1.24e-002	1.081e-002
1404	717.	701.5	0.5072	1.84e-002	1.604e-002
1405	717.5	702.	0.507	1.82e-002	1.586e-002
1406	718.	702.5	0.5064	1.76e-002	1.534e-002
1407	718.5	703.	0.5051	1.63e-002	1.421e-002
1408	719.	703.5	0.5039	1.51e-002	1.316e-002
1409	719.5	704.	0.5063	1.75e-002	1.525e-002
1410	720.	704.5	0.5059	1.71e-002	1.491e-002
1411	720.5	705.	0.513	2.42e-002	2.109e-002
1412	721.	705.5	0.505	1.62e-002	1.412e-002
1413	721.5	706.	0.505	1.62e-002	1.412e-002
1414	722.	706.5	0.5029	1.41e-002	1.229e-002
1415	722.5	707.	0.5072	1.84e-002	1.604e-002
1416	723.	707.5	0.5057	1.69e-002	1.473e-002

1417	723.5	708.	0.5014	1.26e-002	1.098e-002
1418	724.	708.5	0.5044	1.56e-002	1.36e-002
1419	724.5	709.	0.5056	1.68e-002	1.464e-002
1420	725.	709.5	0.5078	1.9e-002	1.656e-002
1421	725.5	710.	0.5076	1.88e-002	1.639e-002
1422	726.	710.5	0.5073	1.85e-002	1.613e-002
1423	726.5	711.	0.5077	1.89e-002	1.647e-002
1424	727.	711.5	0.5033	1.45e-002	1.264e-002
1425	727.5	712.	0.5044	1.56e-002	1.36e-002
1426	728.	712.5	0.5087	1.99e-002	1.735e-002
1427	728.5	713.	0.5086	1.98e-002	1.726e-002
1428	729.	713.5	0.5091	2.03e-002	1.77e-002
1429	729.5	714.	0.5075	1.87e-002	1.63e-002
1430	730.	714.5	0.5079	1.91e-002	1.665e-002
1431	730.5	715.	0.5024	1.36e-002	1.185e-002
1432	731.	715.5	0.5059	1.71e-002	1.491e-002
1433	731.5	716.	0.5068	1.8e-002	1.569e-002
1434	732.	716.5	0.5051	1.63e-002	1.421e-002
1435	732.5	717.	0.5078	1.9e-002	1.656e-002
1436	733.	717.5	0.503	1.42e-002	1.238e-002
1437	733.5	718.	0.5105	2.17e-002	1.892e-002
1438	734.	718.5	0.5073	1.85e-002	1.613e-002
1439	734.5	719.	0.5035	1.47e-002	1.281e-002
1440	735.	719.5	0.5028	1.4e-002	1.22e-002
1441	735.5	720.	0.5045	1.57e-002	1.369e-002
1442	736.	720.5	0.5043	1.55e-002	1.351e-002
1443	736.5	721.	0.5054	1.66e-002	1.447e-002
1444	737.	721.5	0.5088	2.e-002	1.743e-002
1445	737.5	722.	0.5045	1.57e-002	1.369e-002
1446	738.	722.5	0.5061	1.73e-002	1.508e-002
1447	738.5	723.	0.5051	1.63e-002	1.421e-002
1448	739.	723.5	0.5044	1.56e-002	1.36e-002
1449	739.5	724.	0.5071	1.83e-002	1.595e-002
1450	740.	724.5	0.507	1.82e-002	1.586e-002
1451	740.5	725.	0.5072	1.84e-002	1.604e-002
1452	741.	725.5	0.5085	1.97e-002	1.717e-002
1453	741.5	726.	0.5029	1.41e-002	1.229e-002
1454	742.	726.5	0.509	2.02e-002	1.761e-002
1455	742.5	727.	0.5062	1.74e-002	1.517e-002
1456	743.	727.5	0.5069	1.81e-002	1.578e-002
1457	743.5	728.	0.5066	1.78e-002	1.552e-002
1458	744.	728.5	0.5057	1.69e-002	1.473e-002
1459	744.5	729.	0.5029	1.41e-002	1.229e-002
1460	745.	729.5	0.5056	1.68e-002	1.464e-002
1461	745.5	730.	0.5062	1.74e-002	1.517e-002
1462	746.	730.5	0.5082	1.94e-002	1.691e-002
1463	746.5	731.	0.5081	1.93e-002	1.682e-002
1464	747.	731.5	0.505	1.62e-002	1.412e-002
1465	747.5	732.	0.508	1.92e-002	1.674e-002
1466	748.	732.5	0.5075	1.87e-002	1.63e-002
1467	748.5	733.	0.5059	1.71e-002	1.491e-002
1468	749.	733.5	0.5018	1.3e-002	1.133e-002
1469	749.5	734.	0.5046	1.58e-002	1.377e-002
1470	750.	734.5	0.5082	1.94e-002	1.691e-002
1471	750.5	735.	0.5048	1.6e-002	1.395e-002
1472	751.	735.5	0.5069	1.81e-002	1.578e-002
1473	751.5	736.	0.5047	1.59e-002	1.386e-002
1474	752.	736.5	0.5055	1.67e-002	1.456e-002
1475	752.5	737.	0.5039	1.51e-002	1.316e-002
1476	753.	737.5	0.5032	1.44e-002	1.255e-002

1477	753.5	738.	0.51	2.12e-002	1.848e-002
1478	754.	738.5	0.5079	1.91e-002	1.665e-002
1479	754.5	739.	0.5059	1.71e-002	1.491e-002
1480	755.	739.5	0.5023	1.35e-002	1.177e-002
1481	755.5	740.	0.5029	1.41e-002	1.229e-002
1482	756.	740.5	0.5053	1.65e-002	1.438e-002
1483	756.5	741.	0.5081	1.93e-002	1.682e-002
1484	757.	741.5	0.5093	2.05e-002	1.787e-002
1485	757.5	742.	0.5067	1.79e-002	1.56e-002
1486	758.	742.5	0.5066	1.78e-002	1.552e-002
1487	758.5	743.	0.5033	1.45e-002	1.264e-002
1488	759.	743.5	0.5033	1.45e-002	1.264e-002
1489	759.5	744.	0.5075	1.87e-002	1.63e-002
1490	760.	744.5	0.5083	1.95e-002	1.7e-002
1491	760.5	745.	0.502	1.32e-002	1.151e-002
1492	761.	745.5	0.5032	1.44e-002	1.255e-002
1493	761.5	746.	0.5006	1.18e-002	1.029e-002
1494	762.	746.5	0.5044	1.56e-002	1.36e-002
1495	762.5	747.	0.505	1.62e-002	1.412e-002
1496	763.	747.5	0.5057	1.69e-002	1.473e-002
1497	763.5	748.	0.5041	1.53e-002	1.334e-002
1498	764.	748.5	0.5044	1.56e-002	1.36e-002
1499	764.5	749.	0.5042	1.54e-002	1.342e-002
1500	765.	749.5	0.5063	1.75e-002	1.525e-002
1501	765.5	750.	0.5068	1.8e-002	1.569e-002
1502	766.	750.5	0.5072	1.84e-002	1.604e-002
1503	766.5	751.	0.5011	1.23e-002	1.072e-002
1504	767.	751.5	0.5085	1.97e-002	1.717e-002
1505	767.5	752.	0.504	1.52e-002	1.325e-002
1506	768.	752.5	0.509	2.02e-002	1.761e-002
1507	768.5	753.	0.5038	1.5e-002	1.308e-002
1508	769.	753.5	0.5002	1.14e-002	9.937e-003
1509	769.5	754.	0.5063	1.75e-002	1.525e-002
1510	770.	754.5	0.5044	1.56e-002	1.36e-002
1511	770.5	755.	0.5063	1.75e-002	1.525e-002
1512	771.	755.5	0.5047	1.59e-002	1.386e-002
1513	771.5	756.	0.5063	1.75e-002	1.525e-002
1514	772.	756.5	0.5039	1.51e-002	1.316e-002
1515	772.5	757.	0.5084	1.96e-002	1.709e-002
1516	773.	757.5	0.5047	1.59e-002	1.386e-002
1517	773.5	758.	0.5011	1.23e-002	1.072e-002
1518	774.	758.5	0.5033	1.45e-002	1.264e-002
1519	774.5	759.	0.5015	1.27e-002	1.107e-002
1520	775.	759.5	0.5027	1.39e-002	1.212e-002
1521	775.5	760.	0.5033	1.45e-002	1.264e-002
1522	776.	760.5	0.4996	1.08e-002	9.414e-003
1523	776.5	761.	0.5027	1.39e-002	1.212e-002
1524	777.	761.5	0.5015	1.27e-002	1.107e-002
1525	777.5	762.	0.4985	9.7e-003	8.455e-003
1526	778.	762.5	0.502	1.32e-002	1.151e-002
1527	778.5	763.	0.5029	1.41e-002	1.229e-002
1528	779.	763.5	0.5039	1.51e-002	1.316e-002
1529	779.5	764.	0.5015	1.27e-002	1.107e-002
1530	780.	764.5	0.5037	1.49e-002	1.299e-002
1531	780.5	765.	0.5012	1.24e-002	1.081e-002
1532	781.	765.5	0.5012	1.24e-002	1.081e-002
1533	781.5	766.	0.5003	1.15e-002	1.002e-002
1534	782.	766.5	0.5056	1.68e-002	1.464e-002
1535	782.5	767.	0.5042	1.54e-002	1.342e-002
1536	783.	767.5	0.5044	1.56e-002	1.36e-002

1537	783.5	768.	0.5038	1.5e-002	1.308e-002
1538	784.	768.5	0.5022	1.34e-002	1.168e-002
1539	784.5	769.	0.5042	1.54e-002	1.342e-002
1540	785.	769.5	0.5033	1.45e-002	1.264e-002
1541	785.5	770.	0.5057	1.69e-002	1.473e-002
1542	786.	770.5	0.5018	1.3e-002	1.133e-002
1543	786.5	771.	0.5027	1.39e-002	1.212e-002
1544	787.	771.5	0.5024	1.36e-002	1.185e-002
1545	787.5	772.	0.5075	1.87e-002	1.63e-002
1546	788.	772.5	0.505	1.62e-002	1.412e-002
1547	788.5	773.	0.5027	1.39e-002	1.212e-002
1548	789.	773.5	0.5014	1.26e-002	1.098e-002
1549	789.5	774.	0.5008	1.2e-002	1.046e-002
1550	790.	774.5	0.5023	1.35e-002	1.177e-002
1551	790.5	775.	0.4988	1.e-002	8.717e-003
1552	791.	775.5	0.5017	1.29e-002	1.124e-002
1553	791.5	776.	0.5045	1.57e-002	1.369e-002
1554	792.	776.5	0.5018	1.3e-002	1.133e-002
1555	792.5	777.	0.4985	9.7e-003	8.455e-003
1556	793.	777.5	0.5035	1.47e-002	1.281e-002
1557	793.5	778.	0.5023	1.35e-002	1.177e-002
1558	794.	778.5	0.4999	1.11e-002	9.676e-003
1559	794.5	779.	0.5005	1.17e-002	1.02e-002
1560	795.	779.5	0.499	1.02e-002	8.891e-003
1561	795.5	780.	0.5008	1.2e-002	1.046e-002
1562	796.	780.5	0.5054	1.66e-002	1.447e-002
1563	796.5	781.	0.5024	1.36e-002	1.185e-002
1564	797.	781.5	0.5033	1.45e-002	1.264e-002
1565	797.5	782.	0.5026	1.38e-002	1.203e-002
1566	798.	782.5	0.5009	1.21e-002	1.055e-002
1567	798.5	783.	0.502	1.32e-002	1.151e-002
1568	799.	783.5	0.5037	1.49e-002	1.299e-002
1569	799.5	784.	0.5	1.12e-002	9.763e-003
1570	800.	784.5	0.5036	1.48e-002	1.29e-002
1571	800.5	785.	0.5	1.12e-002	9.763e-003
1572	801.	785.5	0.5029	1.41e-002	1.229e-002
1573	801.5	786.	0.5039	1.51e-002	1.316e-002
1574	802.	786.5	0.5025	1.37e-002	1.194e-002
1575	802.5	787.	0.502	1.32e-002	1.151e-002
1576	803.	787.5	0.5018	1.3e-002	1.133e-002
1577	803.5	788.	0.503	1.42e-002	1.238e-002
1578	804.	788.5	0.5009	1.21e-002	1.055e-002
1579	804.5	789.	0.5017	1.29e-002	1.124e-002
1580	805.	789.5	0.5045	1.57e-002	1.369e-002
1581	805.5	790.	0.5004	1.16e-002	1.011e-002
1582	806.	790.5	0.5028	1.4e-002	1.22e-002
1583	806.5	791.	0.5009	1.21e-002	1.055e-002
1584	807.	791.5	0.5051	1.63e-002	1.421e-002
1585	807.5	792.	0.5018	1.3e-002	1.133e-002
1586	808.	792.5	0.5054	1.66e-002	1.447e-002
1587	808.5	793.	0.5027	1.39e-002	1.212e-002
1588	809.	793.5	0.504	1.52e-002	1.325e-002
1589	809.5	794.	0.5012	1.24e-002	1.081e-002
1590	810.	794.5	0.5017	1.29e-002	1.124e-002
1591	810.5	795.	0.5002	1.14e-002	9.937e-003
1592	811.	795.5	0.4993	1.05e-002	9.153e-003
1593	811.5	796.	0.5057	1.69e-002	1.473e-002
1594	812.	796.5	0.5017	1.29e-002	1.124e-002
1595	812.5	797.	0.5015	1.27e-002	1.107e-002
1596	813.	797.5	0.5014	1.26e-002	1.098e-002

1597	813.5	798.	0.5033	1.45e-002	1.264e-002
1598	814.	798.5	0.5039	1.51e-002	1.316e-002
1599	814.5	799.	0.5008	1.2e-002	1.046e-002
1600	815.	799.5	0.5	1.12e-002	9.763e-003
1601	815.5	800.	0.5038	1.5e-002	1.308e-002
1602	816.	800.5	0.5026	1.38e-002	1.203e-002
1603	816.5	801.	0.5009	1.21e-002	1.055e-002
1604	817.	801.5	0.5018	1.3e-002	1.133e-002
1605	817.5	802.	0.5037	1.49e-002	1.299e-002
1606	818.	802.5	0.5048	1.6e-002	1.395e-002
1607	818.5	803.	0.4999	1.11e-002	9.676e-003
1608	819.	803.5	0.5032	1.44e-002	1.255e-002
1609	819.5	804.	0.5046	1.58e-002	1.377e-002
1610	820.	804.5	0.5029	1.41e-002	1.229e-002
1611	820.5	805.	0.5014	1.26e-002	1.098e-002
1612	821.	805.5	0.4988	1.e-002	8.717e-003
1613	821.5	806.	0.5057	1.69e-002	1.473e-002
1614	822.	806.5	0.5026	1.38e-002	1.203e-002
1615	822.5	807.	0.5026	1.38e-002	1.203e-002
1616	823.	807.5	0.5045	1.57e-002	1.369e-002
1617	823.5	808.	0.5061	1.73e-002	1.508e-002
1618	824.	808.5	0.5024	1.36e-002	1.185e-002
1619	824.5	809.	0.5021	1.33e-002	1.159e-002
1620	825.	809.5	0.4979	9.1e-003	7.932e-003
1621	825.5	810.	0.5012	1.24e-002	1.081e-002
1622	826.	810.5	0.5071	1.83e-002	1.595e-002
1623	826.5	811.	0.5028	1.4e-002	1.22e-002
1624	827.	811.5	0.5069	1.81e-002	1.578e-002
1625	827.5	812.	0.5045	1.57e-002	1.369e-002
1626	828.	812.5	0.5021	1.33e-002	1.159e-002
1627	828.5	813.	0.5072	1.84e-002	1.604e-002
1628	829.	813.5	0.5006	1.18e-002	1.029e-002
1629	829.5	814.	0.4996	1.08e-002	9.414e-003
1630	830.	814.5	0.5014	1.26e-002	1.098e-002
1631	830.5	815.	0.5035	1.47e-002	1.281e-002
1632	831.	815.5	0.5018	1.3e-002	1.133e-002
1633	831.5	816.	0.5011	1.23e-002	1.072e-002
1634	832.	816.5	0.5017	1.29e-002	1.124e-002
1635	832.5	817.	0.5034	1.46e-002	1.273e-002
1636	833.	817.5	0.5014	1.26e-002	1.098e-002
1637	833.5	818.	0.5009	1.21e-002	1.055e-002
1638	834.	818.5	0.5036	1.48e-002	1.29e-002
1639	834.5	819.	0.5036	1.48e-002	1.29e-002
1640	835.	819.5	0.5005	1.17e-002	1.02e-002
1641	835.5	820.	0.5014	1.26e-002	1.098e-002
1642	836.	820.5	0.5073	1.85e-002	1.613e-002
1643	836.5	821.	0.5003	1.15e-002	1.002e-002
1644	837.	821.5	0.5029	1.41e-002	1.229e-002
1645	837.5	822.	0.5005	1.17e-002	1.02e-002
1646	838.	822.5	0.5035	1.47e-002	1.281e-002
1647	838.5	823.	0.5018	1.3e-002	1.133e-002
1648	839.	823.5	0.5036	1.48e-002	1.29e-002
1649	839.5	824.	0.5029	1.41e-002	1.229e-002
1650	840.	824.5	0.5033	1.45e-002	1.264e-002
1651	840.5	825.	0.5059	1.71e-002	1.491e-002
1652	841.	825.5	0.5019	1.31e-002	1.142e-002
1653	841.5	826.	0.5014	1.26e-002	1.098e-002
1654	842.	826.5	0.5048	1.6e-002	1.395e-002
1655	842.5	827.	0.502	1.32e-002	1.151e-002
1656	843.	827.5	0.5026	1.38e-002	1.203e-002

1657	843.5	828.	0.5	1.12e-002	9.763e-003
1658	844.	828.5	0.5027	1.39e-002	1.212e-002
1659	844.5	829.	0.5008	1.2e-002	1.046e-002
1660	845.	829.5	0.5025	1.37e-002	1.194e-002
1661	845.5	830.	0.4997	1.09e-002	9.501e-003
1662	846.	830.5	0.503	1.42e-002	1.238e-002
1663	846.5	831.	0.502	1.32e-002	1.151e-002
1664	847.	831.5	0.4982	9.4e-003	8.194e-003
1665	847.5	832.	0.4983	9.5e-003	8.281e-003
1666	848.	832.5	0.4997	1.09e-002	9.501e-003
1667	848.5	833.	0.5027	1.39e-002	1.212e-002
1668	849.	833.5	0.5036	1.48e-002	1.29e-002
1669	849.5	834.	0.4997	1.09e-002	9.501e-003
1670	850.	834.5	0.5055	1.67e-002	1.456e-002
1671	850.5	835.	0.5036	1.48e-002	1.29e-002
1672	851.	835.5	0.5037	1.49e-002	1.299e-002
1673	851.5	836.	0.5014	1.26e-002	1.098e-002
1674	852.	836.5	0.5027	1.39e-002	1.212e-002
1675	852.5	837.	0.4985	9.7e-003	8.455e-003
1676	853.	837.5	0.4985	9.7e-003	8.455e-003
1677	853.5	838.	0.503	1.42e-002	1.238e-002
1678	854.	838.5	0.5036	1.48e-002	1.29e-002
1679	854.5	839.	0.5031	1.43e-002	1.247e-002
1680	855.	839.5	0.5045	1.57e-002	1.369e-002
1681	855.5	840.	0.5026	1.38e-002	1.203e-002
1682	856.	840.5	0.5012	1.24e-002	1.081e-002
1683	856.5	841.	0.5009	1.21e-002	1.055e-002
1684	857.	841.5	0.5032	1.44e-002	1.255e-002
1685	857.5	842.	0.5027	1.39e-002	1.212e-002
1686	858.	842.5	0.5023	1.35e-002	1.177e-002
1687	858.5	843.	0.5014	1.26e-002	1.098e-002
1688	859.	843.5	0.5	1.12e-002	9.763e-003
1689	859.5	844.	0.5032	1.44e-002	1.255e-002
1690	860.	844.5	0.5055	1.67e-002	1.456e-002
1691	860.5	845.	0.5053	1.65e-002	1.438e-002
1692	861.	845.5	0.5005	1.17e-002	1.02e-002
1693	861.5	846.	0.5002	1.14e-002	9.937e-003
1694	862.	846.5	0.502	1.32e-002	1.151e-002
1695	862.5	847.	0.4997	1.09e-002	9.501e-003
1696	863.	847.5	0.5018	1.3e-002	1.133e-002
1697	863.5	848.	0.5035	1.47e-002	1.281e-002
1698	864.	848.5	0.4994	1.06e-002	9.24e-003
1699	864.5	849.	0.4988	1.e-002	8.717e-003
1700	865.	849.5	0.5028	1.4e-002	1.22e-002
1701	865.5	850.	0.5045	1.57e-002	1.369e-002
1702	866.	850.5	0.5044	1.56e-002	1.36e-002
1703	866.5	851.	0.5021	1.33e-002	1.159e-002
1704	867.	851.5	0.4997	1.09e-002	9.501e-003
1705	867.5	852.	0.5008	1.2e-002	1.046e-002
1706	868.	852.5	0.5045	1.57e-002	1.369e-002
1707	868.5	853.	0.5047	1.59e-002	1.386e-002
1708	869.	853.5	0.5008	1.2e-002	1.046e-002
1709	869.5	854.	0.503	1.42e-002	1.238e-002
1710	870.	854.5	0.4991	1.03e-002	8.978e-003
1711	870.5	855.	0.5014	1.26e-002	1.098e-002
1712	871.	855.5	0.5011	1.23e-002	1.072e-002
1713	871.5	856.	0.5056	1.68e-002	1.464e-002
1714	872.	856.5	0.5025	1.37e-002	1.194e-002
1715	872.5	857.	0.5023	1.35e-002	1.177e-002
1716	873.	857.5	0.5026	1.38e-002	1.203e-002

1717	873.5	858.	0.5028	1.4e-002	1.22e-002
1718	874.	858.5	0.5029	1.41e-002	1.229e-002
1719	874.5	859.	0.5036	1.48e-002	1.29e-002
1720	875.	859.5	0.5005	1.17e-002	1.02e-002
1721	875.5	860.	0.4976	8.8e-003	7.671e-003
1722	876.	860.5	0.4999	1.11e-002	9.676e-003
1723	876.5	861.	0.4993	1.05e-002	9.153e-003
1724	877.	861.5	0.4994	1.06e-002	9.24e-003
1725	877.5	862.	0.4997	1.09e-002	9.501e-003
1726	878.	862.5	0.5036	1.48e-002	1.29e-002
1727	878.5	863.	0.497	8.2e-003	7.148e-003
1728	879.	863.5	0.4996	1.08e-002	9.414e-003
1729	879.5	864.	0.5023	1.35e-002	1.177e-002
1730	880.	864.5	0.5027	1.39e-002	1.212e-002
1731	880.5	865.	0.5042	1.54e-002	1.342e-002
1732	881.	865.5	0.5035	1.47e-002	1.281e-002
1733	881.5	866.	0.5038	1.5e-002	1.308e-002
1734	882.	866.5	0.5009	1.21e-002	1.055e-002
1735	882.5	867.	0.5002	1.14e-002	9.937e-003
1736	883.	867.5	0.5014	1.26e-002	1.098e-002
1737	883.5	868.	0.5023	1.35e-002	1.177e-002
1738	884.	868.5	0.5052	1.64e-002	1.43e-002
1739	884.5	869.	0.5009	1.21e-002	1.055e-002
1740	885.	869.5	0.5015	1.27e-002	1.107e-002
1741	885.5	870.	0.5047	1.59e-002	1.386e-002
1742	886.	870.5	0.5024	1.36e-002	1.185e-002
1743	886.5	871.	0.5042	1.54e-002	1.342e-002
1744	887.	871.5	0.4999	1.11e-002	9.676e-003
1745	887.5	872.	0.4997	1.09e-002	9.501e-003
1746	888.	872.5	0.4996	1.08e-002	9.414e-003
1747	888.5	873.	0.5009	1.21e-002	1.055e-002
1748	889.	873.5	0.5012	1.24e-002	1.081e-002
1749	889.5	874.	0.5027	1.39e-002	1.212e-002
1750	890.	874.5	0.5041	1.53e-002	1.334e-002
1751	890.5	875.	0.5002	1.14e-002	9.937e-003
1752	891.	875.5	0.4987	9.9e-003	8.63e-003
1753	891.5	876.	0.5005	1.17e-002	1.02e-002
1754	892.	876.5	0.5018	1.3e-002	1.133e-002
1755	892.5	877.	0.502	1.32e-002	1.151e-002
1756	893.	877.5	0.5057	1.69e-002	1.473e-002
1757	893.5	878.	0.5021	1.33e-002	1.159e-002
1758	894.	878.5	0.5042	1.54e-002	1.342e-002
1759	894.5	879.	0.5033	1.45e-002	1.264e-002
1760	895.	879.5	0.5	1.12e-002	9.763e-003
1761	895.5	880.	0.5005	1.17e-002	1.02e-002
1762	896.	880.5	0.5018	1.3e-002	1.133e-002
1763	896.5	881.	0.4972	8.4e-003	7.322e-003
1764	897.	881.5	0.4994	1.06e-002	9.24e-003
1765	897.5	882.	0.5037	1.49e-002	1.299e-002
1766	898.	882.5	0.4981	9.3e-003	8.107e-003
1767	898.5	883.	0.4996	1.08e-002	9.414e-003
1768	899.	883.5	0.5021	1.33e-002	1.159e-002
1769	899.5	884.	0.5026	1.38e-002	1.203e-002
1770	900.	884.5	0.5013	1.25e-002	1.09e-002
1771	900.5	885.	0.5039	1.51e-002	1.316e-002
1772	901.	885.5	0.4997	1.09e-002	9.501e-003
1773	901.5	886.	0.4955	6.7e-003	5.84e-003
1774	902.	886.5	0.5009	1.21e-002	1.055e-002
1775	902.5	887.	0.5021	1.33e-002	1.159e-002
1776	903.	887.5	0.4991	1.03e-002	8.978e-003

1777	903.5	888.	0.5047	1.59e-002	1.386e-002
1778	904.	888.5	0.5035	1.47e-002	1.281e-002
1779	904.5	889.	0.5009	1.21e-002	1.055e-002
1780	905.	889.5	0.5018	1.3e-002	1.133e-002
1781	905.5	890.	0.5022	1.34e-002	1.168e-002
1782	906.	890.5	0.5006	1.18e-002	1.029e-002
1783	906.5	891.	0.499	1.02e-002	8.891e-003
1784	907.	891.5	0.5032	1.44e-002	1.255e-002
1785	907.5	892.	0.5036	1.48e-002	1.29e-002
1786	908.	892.5	0.5021	1.33e-002	1.159e-002
1787	908.5	893.	0.5003	1.15e-002	1.002e-002
1788	909.	893.5	0.5019	1.31e-002	1.142e-002
1789	909.5	894.	0.4997	1.09e-002	9.501e-003
1790	910.	894.5	0.5011	1.23e-002	1.072e-002
1791	910.5	895.	0.5008	1.2e-002	1.046e-002
1792	911.	895.5	0.4996	1.08e-002	9.414e-003
1793	911.5	896.	0.5035	1.47e-002	1.281e-002
1794	912.	896.5	0.5002	1.14e-002	9.937e-003
1795	912.5	897.	0.5023	1.35e-002	1.177e-002
1796	913.	897.5	0.5006	1.18e-002	1.029e-002
1797	913.5	898.	0.5039	1.51e-002	1.316e-002
1798	914.	898.5	0.5045	1.57e-002	1.369e-002
1799	914.5	899.	0.5039	1.51e-002	1.316e-002
1800	915.	899.5	0.5003	1.15e-002	1.002e-002
1801	915.5	900.	0.4999	1.11e-002	9.676e-003
1802	916.	900.5	0.5008	1.2e-002	1.046e-002
1803	916.5	901.	0.5023	1.35e-002	1.177e-002
1804	917.	901.5	0.502	1.32e-002	1.151e-002
1805	917.5	902.	0.5057	1.69e-002	1.473e-002
1806	918.	902.5	0.5015	1.27e-002	1.107e-002
1807	918.5	903.	0.5032	1.44e-002	1.255e-002
1808	919.	903.5	0.5027	1.39e-002	1.212e-002
1809	919.5	904.	0.5023	1.35e-002	1.177e-002
1810	920.	904.5	0.5066	1.78e-002	1.552e-002
1811	920.5	905.	0.5011	1.23e-002	1.072e-002
1812	921.	905.5	0.5047	1.59e-002	1.386e-002
1813	921.5	906.	0.5042	1.54e-002	1.342e-002
1814	922.	906.5	0.5018	1.3e-002	1.133e-002
1815	922.5	907.	0.5003	1.15e-002	1.002e-002
1816	923.	907.5	0.5003	1.15e-002	1.002e-002
1817	923.5	908.	0.5011	1.23e-002	1.072e-002
1818	924.	908.5	0.5017	1.29e-002	1.124e-002
1819	924.5	909.	0.4999	1.11e-002	9.676e-003
1820	925.	909.5	0.5027	1.39e-002	1.212e-002
1821	925.5	910.	0.503	1.42e-002	1.238e-002
1822	926.	910.5	0.507	1.82e-002	1.586e-002
1823	926.5	911.	0.4988	1.e-002	8.717e-003
1824	927.	911.5	0.4969	8.1e-003	7.061e-003
1825	927.5	912.	0.5024	1.36e-002	1.185e-002
1826	928.	912.5	0.5002	1.14e-002	9.937e-003
1827	928.5	913.	0.5027	1.39e-002	1.212e-002
1828	929.	913.5	0.4997	1.09e-002	9.501e-003
1829	929.5	914.	0.5053	1.65e-002	1.438e-002
1830	930.	914.5	0.5049	1.61e-002	1.403e-002
1831	930.5	915.	0.5002	1.14e-002	9.937e-003
1832	931.	915.5	0.4979	9.1e-003	7.932e-003
1833	931.5	916.	0.5021	1.33e-002	1.159e-002
1834	932.	916.5	0.5012	1.24e-002	1.081e-002
1835	932.5	917.	0.506	1.72e-002	1.499e-002
1836	933.	917.5	0.5034	1.46e-002	1.273e-002

1837	933.5	918.	0.4997	1.09e-002	9.501e-003
1838	934.	918.5	0.5043	1.55e-002	1.351e-002
1839	934.5	919.	0.5008	1.2e-002	1.046e-002
1840	935.	919.5	0.5019	1.31e-002	1.142e-002
1841	935.5	920.	0.4993	1.05e-002	9.153e-003
1842	936.	920.5	0.5008	1.2e-002	1.046e-002
1843	936.5	921.	0.5012	1.24e-002	1.081e-002
1844	937.	921.5	0.5039	1.51e-002	1.316e-002
1845	937.5	922.	0.5008	1.2e-002	1.046e-002
1846	938.	922.5	0.5015	1.27e-002	1.107e-002
1847	938.5	923.	0.5051	1.63e-002	1.421e-002
1848	939.	923.5	0.5014	1.26e-002	1.098e-002
1849	939.5	924.	0.5009	1.21e-002	1.055e-002
1850	940.	924.5	0.5009	1.21e-002	1.055e-002
1851	940.5	925.	0.5	1.12e-002	9.763e-003
1852	941.	925.5	0.5009	1.21e-002	1.055e-002
1853	941.5	926.	0.5032	1.44e-002	1.255e-002
1854	942.	926.5	0.5002	1.14e-002	9.937e-003
1855	942.5	927.	0.5036	1.48e-002	1.29e-002
1856	943.	927.5	0.4991	1.03e-002	8.978e-003
1857	943.5	928.	0.5051	1.63e-002	1.421e-002
1858	944.	928.5	0.5005	1.17e-002	1.02e-002
1859	944.5	929.	0.5018	1.3e-002	1.133e-002
1860	945.	929.5	0.5037	1.49e-002	1.299e-002
1861	945.5	930.	0.502	1.32e-002	1.151e-002
1862	946.	930.5	0.5078	1.9e-002	1.656e-002
1863	946.5	931.	0.4972	8.4e-003	7.322e-003
1864	947.	931.5	0.4993	1.05e-002	9.153e-003
1865	947.5	932.	0.5025	1.37e-002	1.194e-002
1866	948.	932.5	0.5042	1.54e-002	1.342e-002
1867	948.5	933.	0.4991	1.03e-002	8.978e-003
1868	949.	933.5	0.4994	1.06e-002	9.24e-003
1869	949.5	934.	0.5035	1.47e-002	1.281e-002
1870	950.	934.5	0.5015	1.27e-002	1.107e-002
1871	950.5	935.	0.5021	1.33e-002	1.159e-002
1872	951.	935.5	0.5028	1.4e-002	1.22e-002
1873	951.5	936.	0.5003	1.15e-002	1.002e-002
1874	952.	936.5	0.4981	9.3e-003	8.107e-003
1875	952.5	937.	0.5015	1.27e-002	1.107e-002
1876	953.	937.5	0.4986	9.8e-003	8.543e-003
1877	953.5	938.	0.4999	1.11e-002	9.676e-003
1878	954.	938.5	0.5052	1.64e-002	1.43e-002
1879	954.5	939.	0.4996	1.08e-002	9.414e-003
1880	955.	939.5	0.5014	1.26e-002	1.098e-002
1881	955.5	940.	0.5048	1.6e-002	1.395e-002
1882	956.	940.5	0.5042	1.54e-002	1.342e-002
1883	956.5	941.	0.5038	1.5e-002	1.308e-002
1884	957.	941.5	0.4978	9.e-003	7.845e-003
1885	957.5	942.	0.502	1.32e-002	1.151e-002
1886	958.	942.5	0.5052	1.64e-002	1.43e-002
1887	958.5	943.	0.5023	1.35e-002	1.177e-002
1888	959.	943.5	0.4969	8.1e-003	7.061e-003
1889	959.5	944.	0.4996	1.08e-002	9.414e-003
1890	960.	944.5	0.5052	1.64e-002	1.43e-002
1891	960.5	945.	0.5003	1.15e-002	1.002e-002
1892	961.	945.5	0.4992	1.04e-002	9.066e-003
1893	961.5	946.	0.5038	1.5e-002	1.308e-002
1894	962.	946.5	0.5009	1.21e-002	1.055e-002
1895	962.5	947.	0.5014	1.26e-002	1.098e-002
1896	963.	947.5	0.4994	1.06e-002	9.24e-003

1897	963.5	948.	0.5052	1.64e-002	1.43e-002
1898	964.	948.5	0.4988	1.e-002	8.717e-003
1899	964.5	949.	0.4978	9.e-003	7.845e-003
1900	965.	949.5	0.4999	1.11e-002	9.676e-003
1901	965.5	950.	0.4996	1.08e-002	9.414e-003
1902	966.	950.5	0.4985	9.7e-003	8.455e-003
1903	966.5	951.	0.4997	1.09e-002	9.501e-003
1904	967.	951.5	0.5037	1.49e-002	1.299e-002
1905	967.5	952.	0.5015	1.27e-002	1.107e-002
1906	968.	952.5	0.4967	7.9e-003	6.886e-003
1907	968.5	953.	0.5011	1.23e-002	1.072e-002
1908	969.	953.5	0.5006	1.18e-002	1.029e-002
1909	969.5	954.	0.5	1.12e-002	9.763e-003
1910	970.	954.5	0.5009	1.21e-002	1.055e-002
1911	970.5	955.	0.5009	1.21e-002	1.055e-002
1912	971.	955.5	0.5018	1.3e-002	1.133e-002
1913	971.5	956.	0.5015	1.27e-002	1.107e-002
1914	972.	956.5	0.5009	1.21e-002	1.055e-002
1915	972.5	957.	0.4981	9.3e-003	8.107e-003
1916	973.	957.5	0.4985	9.7e-003	8.455e-003
1917	973.5	958.	0.5018	1.3e-002	1.133e-002
1918	974.	958.5	0.5005	1.17e-002	1.02e-002
1919	974.5	959.	0.5036	1.48e-002	1.29e-002
1920	975.	959.5	0.4955	6.7e-003	5.84e-003
1921	975.5	960.	0.5015	1.27e-002	1.107e-002
1922	976.	960.5	0.5029	1.41e-002	1.229e-002
1923	976.5	961.	0.4999	1.11e-002	9.676e-003
1924	977.	961.5	0.4999	1.11e-002	9.676e-003
1925	977.5	962.	0.4999	1.11e-002	9.676e-003
1926	978.	962.5	0.5026	1.38e-002	1.203e-002
1927	978.5	963.	0.5003	1.15e-002	1.002e-002
1928	979.	963.5	0.4999	1.11e-002	9.676e-003
1929	979.5	964.	0.5011	1.23e-002	1.072e-002
1930	980.	964.5	0.5014	1.26e-002	1.098e-002
1931	980.5	965.	0.5027	1.39e-002	1.212e-002
1932	981.	965.5	0.4999	1.11e-002	9.676e-003
1933	981.5	966.	0.5005	1.17e-002	1.02e-002
1934	982.	966.5	0.4993	1.05e-002	9.153e-003
1935	982.5	967.	0.5021	1.33e-002	1.159e-002
1936	983.	967.5	0.5036	1.48e-002	1.29e-002
1937	983.5	968.	0.5035	1.47e-002	1.281e-002
1938	984.	968.5	0.5009	1.21e-002	1.055e-002
1939	984.5	969.	0.5017	1.29e-002	1.124e-002
1940	985.	969.5	0.4987	9.9e-003	8.63e-003
1941	985.5	970.	0.4993	1.05e-002	9.153e-003
1942	986.	970.5	0.4973	8.5e-003	7.409e-003
1943	986.5	971.	0.5009	1.21e-002	1.055e-002
1944	987.	971.5	0.5022	1.34e-002	1.168e-002
1945	987.5	972.	0.4993	1.05e-002	9.153e-003
1946	988.	972.5	0.5005	1.17e-002	1.02e-002
1947	988.5	973.	0.5017	1.29e-002	1.124e-002
1948	989.	973.5	0.5033	1.45e-002	1.264e-002
1949	989.5	974.	0.5008	1.2e-002	1.046e-002
1950	990.	974.5	0.4992	1.04e-002	9.066e-003
1951	990.5	975.	0.5015	1.27e-002	1.107e-002
1952	991.	975.5	0.4982	9.4e-003	8.194e-003
1953	991.5	976.	0.5026	1.38e-002	1.203e-002
1954	992.	976.5	0.5026	1.38e-002	1.203e-002
1955	992.5	977.	0.5026	1.38e-002	1.203e-002
1956	993.	977.5	0.502	1.32e-002	1.151e-002

1957	993.5	978.	0.4967	7.9e-003	6.886e-003
1958	994.	978.5	0.497	8.2e-003	7.148e-003
1959	994.5	979.	0.4991	1.03e-002	8.978e-003
1960	995.	979.5	0.4994	1.06e-002	9.24e-003
1961	995.5	980.	0.4987	9.9e-003	8.63e-003
1962	996.	980.5	0.4994	1.06e-002	9.24e-003
1963	996.5	981.	0.5041	1.53e-002	1.334e-002
1964	997.	981.5	0.4997	1.09e-002	9.501e-003
1965	997.5	982.	0.5008	1.2e-002	1.046e-002
1966	998.	982.5	0.5043	1.55e-002	1.351e-002
1967	998.5	983.	0.5005	1.17e-002	1.02e-002
1968	999.	983.5	0.499	1.02e-002	8.891e-003
1969	999.5	984.	0.5017	1.29e-002	1.124e-002
1970	1000	984.5	0.4976	8.8e-003	7.671e-003
1971	1001	985.5	0.4994	1.06e-002	9.24e-003
1972	1001	985.5	0.5006	1.18e-002	1.029e-002
1973	1002	986.5	0.5014	1.26e-002	1.098e-002
1974	1002	986.5	0.4987	9.9e-003	8.63e-003
1975	1003	987.5	0.4976	8.8e-003	7.671e-003
1976	1003	987.5	0.4967	7.9e-003	6.886e-003
1977	1003	987.5	0.4987	9.9e-003	8.63e-003
1978	1004	988.5	0.4973	8.5e-003	7.409e-003
1979	1005	989.5	0.5002	1.14e-002	9.937e-003
1980	1005	989.5	0.4989	1.01e-002	8.804e-003
1981	1006	990.5	0.4982	9.4e-003	8.194e-003
1982	1006	990.5	0.5036	1.48e-002	1.29e-002
1983	1007	991.5	0.4982	9.4e-003	8.194e-003
1984	1007	991.5	0.5035	1.47e-002	1.281e-002
1985	1008	992.5	0.5061	1.73e-002	1.508e-002
1986	1008	992.5	0.5023	1.35e-002	1.177e-002
1987	1009	993.5	0.5043	1.55e-002	1.351e-002
1988	1009	993.5	0.5036	1.48e-002	1.29e-002
1989	1010	994.5	0.4991	1.03e-002	8.978e-003
1990	1010	994.5	0.5007	1.19e-002	1.037e-002
1991	1010	994.5	0.5	1.12e-002	9.763e-003
1992	1011	995.5	0.5012	1.24e-002	1.081e-002
1993	1012	996.5	0.5008	1.2e-002	1.046e-002
1994	1012	996.5	0.502	1.32e-002	1.151e-002
1995	1013	997.5	0.4996	1.08e-002	9.414e-003
1996	1013	997.5	0.5045	1.57e-002	1.369e-002
1997	1014	998.5	0.4979	9.1e-003	7.932e-003
1998	1014	998.5	0.4997	1.09e-002	9.501e-003
1999	1015	999.5	0.5018	1.3e-002	1.133e-002
2000	1015	999.5	0.5044	1.56e-002	1.36e-002
2001	1016	1000	0.5065	1.77e-002	1.543e-002
2002	1016	1000	0.5033	1.45e-002	1.264e-002
2003	1017	1001	0.5009	1.21e-002	1.055e-002
2004	1017	1001	0.499	1.02e-002	8.891e-003
2005	1017	1001	0.5029	1.41e-002	1.229e-002
2006	1018	1003	0.5039	1.51e-002	1.316e-002
2007	1019	1004	0.5021	1.33e-002	1.159e-002
2008	1019	1004	0.4976	8.8e-003	7.671e-003
2009	1020	1005	0.5011	1.23e-002	1.072e-002
2010	1020	1005	0.5027	1.39e-002	1.212e-002
2011	1021	1006	0.5026	1.38e-002	1.203e-002
2012	1021	1006	0.4982	9.4e-003	8.194e-003
2013	1022	1007	0.4988	1.e-002	8.717e-003
2014	1022	1007	0.4985	9.7e-003	8.455e-003
2015	1023	1007	0.5024	1.36e-002	1.185e-002
2016	1023	1007	0.5027	1.39e-002	1.212e-002

2017	1024	1008	0.4981	9.3e-003	8.107e-003
2018	1024	1008	0.5027	1.39e-002	1.212e-002
2019	1025	1010	0.4999	1.11e-002	9.676e-003
2020	1025	1010	0.499	1.02e-002	8.891e-003
2021	1026	1011	0.5042	1.54e-002	1.342e-002
2022	1026	1011	0.5015	1.27e-002	1.107e-002
2023	1027	1012	0.5015	1.27e-002	1.107e-002
2024	1027	1012	0.5002	1.14e-002	9.937e-003
2025	1028	1013	0.5026	1.38e-002	1.203e-002
2026	1028	1013	0.4999	1.11e-002	9.676e-003
2027	1029	1014	0.4996	1.08e-002	9.414e-003
2028	1029	1014	0.499	1.02e-002	8.891e-003
2029	1030	1014	0.5031	1.43e-002	1.247e-002
2030	1030	1014	0.499	1.02e-002	8.891e-003
2031	1031	1015	0.5007	1.19e-002	1.037e-002
2032	1031	1015	0.5042	1.54e-002	1.342e-002
2033	1032	1017	0.4977	8.9e-003	7.758e-003
2034	1032	1017	0.5019	1.31e-002	1.142e-002
2035	1033	1018	0.5018	1.3e-002	1.133e-002
2036	1033	1018	0.5027	1.39e-002	1.212e-002
2037	1034	1019	0.5046	1.58e-002	1.377e-002
2038	1034	1019	0.4992	1.04e-002	9.066e-003
2039	1035	1020	0.4981	9.3e-003	8.107e-003
2040	1035	1020	0.5018	1.3e-002	1.133e-002
2041	1036	1021	0.4978	9.e-003	7.845e-003
2042	1036	1021	0.5003	1.15e-002	1.002e-002
2043	1037	1021	0.5024	1.36e-002	1.185e-002
2044	1037	1021	0.5012	1.24e-002	1.081e-002
2045	1038	1022	0.5018	1.3e-002	1.133e-002
2046	1038	1022	0.4988	1.e-002	8.717e-003
2047	1039	1024	0.5043	1.55e-002	1.351e-002
2048	1039	1024	0.502	1.32e-002	1.151e-002
2049	1040	1025	0.4955	6.7e-003	5.84e-003
2050	1040	1025	0.4997	1.09e-002	9.501e-003
2051	1041	1026	0.4984	9.6e-003	8.368e-003
2052	1041	1026	0.5014	1.26e-002	1.098e-002
2053	1042	1027	0.5008	1.2e-002	1.046e-002
2054	1042	1027	0.5105	2.17e-002	1.892e-002
2055	1043	1028	0.501	1.22e-002	1.063e-002
2056	1043	1028	0.502	1.32e-002	1.151e-002
2057	1044	1029	0.4988	1.e-002	8.717e-003
2058	1044	1029	0.499	1.02e-002	8.891e-003
2059	1045	1029	0.5014	1.26e-002	1.098e-002
2060	1045	1029	0.5039	1.51e-002	1.316e-002
2061	1046	1031	0.5036	1.48e-002	1.29e-002
2062	1046	1031	0.5012	1.24e-002	1.081e-002
2063	1047	1032	0.5008	1.2e-002	1.046e-002
2064	1047	1032	0.5001	1.13e-002	9.85e-003
2065	1048	1033	0.5011	1.23e-002	1.072e-002
2066	1048	1033	0.5004	1.16e-002	1.011e-002
2067	1049	1034	0.4978	9.e-003	7.845e-003
2068	1049	1034	0.5023	1.35e-002	1.177e-002
2069	1050	1035	0.5012	1.24e-002	1.081e-002
2070	1050	1035	0.4978	9.e-003	7.845e-003
2071	1051	1036	0.5005	1.17e-002	1.02e-002
2072	1051	1036	0.4985	9.7e-003	8.455e-003
2073	1052	1036	0.5032	1.44e-002	1.255e-002
2074	1052	1036	0.4989	1.01e-002	8.804e-003
2075	1053	1038	0.5011	1.23e-002	1.072e-002
2076	1053	1038	0.4969	8.1e-003	7.061e-003

2077	1054	1039	0.5003	1.15e-002	1.002e-002
2078	1054	1039	0.4987	9.9e-003	8.63e-003
2079	1055	1040	0.5016	1.28e-002	1.116e-002
2080	1055	1040	0.4988	1.e-002	8.717e-003
2081	1056	1041	0.5002	1.14e-002	9.937e-003
2082	1056	1041	0.4996	1.08e-002	9.414e-003
2083	1057	1042	0.4997	1.09e-002	9.501e-003
2084	1057	1042	0.5008	1.2e-002	1.046e-002
2085	1058	1043	0.5003	1.15e-002	1.002e-002
2086	1058	1043	0.4997	1.09e-002	9.501e-003
2087	1059	1044	0.5005	1.17e-002	1.02e-002
2088	1059	1044	0.4993	1.05e-002	9.153e-003
2089	1060	1045	0.5006	1.18e-002	1.029e-002
2090	1060	1045	0.4981	9.3e-003	8.107e-003
2091	1061	1046	0.5027	1.39e-002	1.212e-002
2092	1061	1046	0.5012	1.24e-002	1.081e-002
2093	1062	1047	0.4999	1.11e-002	9.676e-003
2094	1062	1047	0.4998	1.1e-002	9.589e-003
2095	1063	1048	0.5024	1.36e-002	1.185e-002
2096	1063	1048	0.4992	1.04e-002	9.066e-003
2097	1064	1049	0.5021	1.33e-002	1.159e-002
2098	1064	1049	0.5014	1.26e-002	1.098e-002
2099	1065	1050	0.5054	1.66e-002	1.447e-002
2100	1065	1050	0.4975	8.7e-003	7.584e-003
2101	1066	1051	0.4988	1.e-002	8.717e-003
2102	1066	1051	0.4987	9.9e-003	8.63e-003
2103	1067	1052	0.4999	1.11e-002	9.676e-003
2104	1067	1052	0.5008	1.2e-002	1.046e-002
2105	1068	1053	0.4996	1.08e-002	9.414e-003
2106	1068	1053	0.502	1.32e-002	1.151e-002
2107	1069	1054	0.5006	1.18e-002	1.029e-002
2108	1069	1054	0.5006	1.18e-002	1.029e-002
2109	1070	1055	0.5017	1.29e-002	1.124e-002
2110	1070	1055	0.5007	1.19e-002	1.037e-002
2111	1071	1056	0.4987	9.9e-003	8.63e-003
2112	1071	1056	0.5032	1.44e-002	1.255e-002
2113	1072	1056	0.5003	1.15e-002	1.002e-002
2114	1072	1056	0.5058	1.7e-002	1.482e-002
2115	1073	1058	0.5045	1.57e-002	1.369e-002
2116	1073	1058	0.5042	1.54e-002	1.342e-002
2117	1074	1059	0.4997	1.09e-002	9.501e-003
2118	1074	1059	0.4993	1.05e-002	9.153e-003
2119	1075	1060	0.4988	1.e-002	8.717e-003
2120	1075	1060	0.4999	1.11e-002	9.676e-003
2121	1076	1061	0.4982	9.4e-003	8.194e-003
2122	1076	1061	0.4976	8.8e-003	7.671e-003
2123	1077	1062	0.5	1.12e-002	9.763e-003
2124	1077	1062	0.4994	1.06e-002	9.24e-003
2125	1078	1063	0.5	1.12e-002	9.763e-003
2126	1078	1063	0.4987	9.9e-003	8.63e-003
2127	1079	1063	0.5064	1.76e-002	1.534e-002
2128	1079	1063	0.501	1.22e-002	1.063e-002
2129	1080	1065	0.506	1.72e-002	1.499e-002
2130	1080	1065	0.4979	9.1e-003	7.932e-003
2131	1081	1066	0.4988	1.e-002	8.717e-003
2132	1081	1066	0.4993	1.05e-002	9.153e-003
2133	1082	1067	0.509	2.02e-002	1.761e-002
2134	1082	1067	0.5017	1.29e-002	1.124e-002
2135	1083	1068	0.503	1.42e-002	1.238e-002
2136	1083	1068	0.5009	1.21e-002	1.055e-002

2137	1084	1069	0.4997	1.09e-002	9.501e-003
2138	1084	1069	0.502	1.32e-002	1.151e-002
2139	1085	1070	0.4994	1.06e-002	9.24e-003
2140	1085	1070	0.5061	1.73e-002	1.508e-002
2141	1086	1070	0.5026	1.38e-002	1.203e-002
2142	1086	1070	0.5048	1.6e-002	1.395e-002
2143	1087	1072	0.499	1.02e-002	8.891e-003
2144	1087	1072	0.5012	1.24e-002	1.081e-002
2145	1088	1073	0.4975	8.7e-003	7.584e-003
2146	1088	1073	0.4978	9.e-003	7.845e-003
2147	1089	1074	0.499	1.02e-002	8.891e-003
2148	1089	1074	0.4994	1.06e-002	9.24e-003
2149	1090	1075	0.4988	1.e-002	8.717e-003
2150	1090	1075	0.4985	9.7e-003	8.455e-003
2151	1091	1076	0.4976	8.8e-003	7.671e-003
2152	1091	1076	0.4993	1.05e-002	9.153e-003
2153	1092	1077	0.5	1.12e-002	9.763e-003
2154	1092	1077	0.5006	1.18e-002	1.029e-002
2155	1093	1077	0.4994	1.06e-002	9.24e-003
2156	1093	1077	0.5029	1.41e-002	1.229e-002
2157	1094	1079	0.5003	1.15e-002	1.002e-002
2158	1094	1079	0.497	8.2e-003	7.148e-003
2159	1095	1080	0.503	1.42e-002	1.238e-002
2160	1095	1080	0.5033	1.45e-002	1.264e-002
2161	1096	1081	0.5024	1.36e-002	1.185e-002
2162	1096	1081	0.4984	9.6e-003	8.368e-003
2163	1097	1082	0.4996	1.08e-002	9.414e-003
2164	1097	1082	0.4999	1.11e-002	9.676e-003
2165	1098	1083	0.5006	1.18e-002	1.029e-002
2166	1098	1083	0.497	8.2e-003	7.148e-003
2167	1099	1084	0.497	8.2e-003	7.148e-003
2168	1099	1084	0.4994	1.06e-002	9.24e-003
2169	1100	1084	0.4985	9.7e-003	8.455e-003
2170	1100	1084	0.4996	1.08e-002	9.414e-003
2171	1101	1086	0.4993	1.05e-002	9.153e-003
2172	1101	1086	0.4978	9.e-003	7.845e-003
2173	1102	1087	0.4982	9.4e-003	8.194e-003
2174	1102	1087	0.4972	8.4e-003	7.322e-003
2175	1103	1088	0.5002	1.14e-002	9.937e-003
2176	1103	1088	0.4991	1.03e-002	8.978e-003
2177	1104	1089	0.5095	2.07e-002	1.804e-002
2178	1104	1089	0.5035	1.47e-002	1.281e-002
2179	1105	1090	0.5041	1.53e-002	1.334e-002
2180	1105	1090	0.5039	1.51e-002	1.316e-002
2181	1106	1091	0.4981	9.3e-003	8.107e-003
2182	1106	1091	0.4991	1.03e-002	8.978e-003
2183	1107	1091	0.4961	7.3e-003	6.363e-003
2184	1107	1091	0.5024	1.36e-002	1.185e-002
2185	1108	1093	0.4967	7.9e-003	6.886e-003
2186	1108	1093	0.4994	1.06e-002	9.24e-003
2187	1109	1094	0.4948	6.e-003	5.23e-003
2188	1109	1094	0.4997	1.09e-002	9.501e-003
2189	1110	1095	0.4997	1.09e-002	9.501e-003
2190	1110	1095	0.4996	1.08e-002	9.414e-003
2191	1111	1096	0.4994	1.06e-002	9.24e-003
2192	1111	1096	0.5011	1.23e-002	1.072e-002
2193	1112	1097	0.5	1.12e-002	9.763e-003
2194	1112	1097	0.5023	1.35e-002	1.177e-002
2195	1113	1098	0.5015	1.27e-002	1.107e-002
2196	1113	1098	0.5054	1.66e-002	1.447e-002

2197	1114	1098	0.4963	7.5e-003	6.538e-003
2198	1114	1098	0.5005	1.17e-002	1.02e-002
2199	1115	1100	0.4976	8.8e-003	7.671e-003
2200	1115	1100	0.4994	1.06e-002	9.24e-003
2201	1116	1101	0.5017	1.29e-002	1.124e-002
2202	1116	1101	0.5039	1.51e-002	1.316e-002
2203	1117	1102	0.4969	8.1e-003	7.061e-003
2204	1117	1102	0.4999	1.11e-002	9.676e-003
2205	1118	1103	0.5033	1.45e-002	1.264e-002
2206	1118	1103	0.5006	1.18e-002	1.029e-002
2207	1119	1104	0.5005	1.17e-002	1.02e-002
2208	1119	1104	0.5006	1.18e-002	1.029e-002
2209	1120	1105	0.4975	8.7e-003	7.584e-003
2210	1120	1105	0.5005	1.17e-002	1.02e-002
2211	1121	1106	0.4993	1.05e-002	9.153e-003
2212	1121	1106	0.4999	1.11e-002	9.676e-003
2213	1122	1107	0.4994	1.06e-002	9.24e-003
2214	1122	1107	0.4976	8.8e-003	7.671e-003
2215	1123	1108	0.4979	9.1e-003	7.932e-003
2216	1123	1108	0.5005	1.17e-002	1.02e-002
2217	1124	1109	0.4994	1.06e-002	9.24e-003
2218	1124	1109	0.5024	1.36e-002	1.185e-002
2219	1125	1110	0.4982	9.4e-003	8.194e-003
2220	1125	1110	0.503	1.42e-002	1.238e-002
2221	1126	1111	0.4993	1.05e-002	9.153e-003
2222	1126	1111	0.499	1.02e-002	8.891e-003
2223	1127	1112	0.5011	1.23e-002	1.072e-002
2224	1127	1112	0.5021	1.33e-002	1.159e-002
2225	1128	1113	0.4996	1.08e-002	9.414e-003
2226	1128	1113	0.4982	9.4e-003	8.194e-003
2227	1129	1114	0.5008	1.2e-002	1.046e-002
2228	1129	1114	0.4957	6.9e-003	6.015e-003
2229	1130	1115	0.4984	9.6e-003	8.368e-003
2230	1130	1115	0.5028	1.4e-002	1.22e-002
2231	1131	1116	0.501	1.22e-002	1.063e-002
2232	1131	1116	0.4999	1.11e-002	9.676e-003
2233	1132	1117	0.5003	1.15e-002	1.002e-002
2234	1132	1117	0.4994	1.06e-002	9.24e-003
2235	1133	1118	0.4975	8.7e-003	7.584e-003
2236	1133	1118	0.4966	7.8e-003	6.799e-003
2237	1134	1118	0.4973	8.5e-003	7.409e-003
2238	1134	1118	0.5039	1.51e-002	1.316e-002
2239	1135	1120	0.4979	9.1e-003	7.932e-003
2240	1135	1120	0.5037	1.49e-002	1.299e-002
2241	1136	1121	0.5037	1.49e-002	1.299e-002
2242	1136	1121	0.5011	1.23e-002	1.072e-002
2243	1137	1122	0.4987	9.9e-003	8.63e-003
2244	1137	1122	0.4979	9.1e-003	7.932e-003
2245	1138	1123	0.5057	1.69e-002	1.473e-002
2246	1138	1123	0.5021	1.33e-002	1.159e-002
2247	1139	1124	0.4979	9.1e-003	7.932e-003
2248	1139	1124	0.5031	1.43e-002	1.247e-002
2249	1140	1125	0.4985	9.7e-003	8.455e-003
2250	1140	1125	0.5021	1.33e-002	1.159e-002
2251	1141	1125	0.4982	9.4e-003	8.194e-003
2252	1141	1125	0.4985	9.7e-003	8.455e-003
2253	1142	1127	0.4987	9.9e-003	8.63e-003
2254	1142	1127	0.5012	1.24e-002	1.081e-002
2255	1143	1128	0.5017	1.29e-002	1.124e-002
2256	1143	1128	0.501	1.22e-002	1.063e-002

2257	1144	1129	0.5033	1.45e-002	1.264e-002
2258	1144	1129	0.5023	1.35e-002	1.177e-002
2259	1145	1130	0.4976	8.8e-003	7.671e-003
2260	1145	1130	0.5028	1.4e-002	1.22e-002
2261	1146	1131	0.4994	1.06e-002	9.24e-003
2262	1146	1131	0.5002	1.14e-002	9.937e-003
2263	1147	1132	0.4981	9.3e-003	8.107e-003
2264	1147	1132	0.4987	9.9e-003	8.63e-003
2265	1148	1132	0.4978	9.e-003	7.845e-003
2266	1148	1132	0.4973	8.5e-003	7.409e-003
2267	1149	1134	0.4984	9.6e-003	8.368e-003
2268	1149	1134	0.5009	1.21e-002	1.055e-002
2269	1150	1135	0.5033	1.45e-002	1.264e-002
2270	1150	1135	0.5014	1.26e-002	1.098e-002
2271	1151	1136	0.4954	6.6e-003	5.753e-003
2272	1151	1136	0.5002	1.14e-002	9.937e-003
2273	1152	1137	0.4984	9.6e-003	8.368e-003
2274	1152	1137	0.4987	9.9e-003	8.63e-003
2275	1153	1138	0.5009	1.21e-002	1.055e-002
2276	1153	1138	0.496	7.2e-003	6.276e-003
2277	1154	1139	0.5024	1.36e-002	1.185e-002
2278	1154	1139	0.5007	1.19e-002	1.037e-002
2279	1155	1139	0.4993	1.05e-002	9.153e-003
2280	1155	1139	0.4987	9.9e-003	8.63e-003
2281	1156	1141	0.4985	9.7e-003	8.455e-003
2282	1156	1141	0.5004	1.16e-002	1.011e-002
2283	1157	1142	0.4982	9.4e-003	8.194e-003
2284	1157	1142	0.4987	9.9e-003	8.63e-003
2285	1158	1143	0.5024	1.36e-002	1.185e-002
2286	1158	1143	0.4996	1.08e-002	9.414e-003
2287	1159	1144	0.499	1.02e-002	8.891e-003
2288	1159	1144	0.5026	1.38e-002	1.203e-002
2289	1160	1145	0.5042	1.54e-002	1.342e-002
2290	1160	1145	0.4997	1.09e-002	9.501e-003
2291	1161	1146	0.4978	9.e-003	7.845e-003
2292	1161	1146	0.5021	1.33e-002	1.159e-002
2293	1162	1146	0.497	8.2e-003	7.148e-003
2294	1162	1146	0.5009	1.21e-002	1.055e-002
2295	1163	1148	0.4967	7.9e-003	6.886e-003
2296	1163	1148	0.496	7.2e-003	6.276e-003
2297	1164	1149	0.4987	9.9e-003	8.63e-003
2298	1164	1149	0.4996	1.08e-002	9.414e-003
2299	1165	1150	0.4961	7.3e-003	6.363e-003
2300	1165	1150	0.4978	9.e-003	7.845e-003
2301	1166	1151	0.5012	1.24e-002	1.081e-002
2302	1166	1151	0.5003	1.15e-002	1.002e-002
2303	1167	1152	0.5009	1.21e-002	1.055e-002
2304	1167	1152	0.5002	1.14e-002	9.937e-003
2305	1168	1153	0.502	1.32e-002	1.151e-002
2306	1168	1153	0.503	1.42e-002	1.238e-002
2307	1169	1153	0.5024	1.36e-002	1.185e-002
2308	1169	1153	0.4986	9.8e-003	8.543e-003
2309	1170	1155	0.5045	1.57e-002	1.369e-002
2310	1170	1155	0.5009	1.21e-002	1.055e-002
2311	1171	1156	0.4991	1.03e-002	8.978e-003
2312	1171	1156	0.5024	1.36e-002	1.185e-002
2313	1172	1157	0.5	1.12e-002	9.763e-003
2314	1172	1157	0.5006	1.18e-002	1.029e-002
2315	1173	1158	0.5038	1.5e-002	1.308e-002
2316	1173	1158	0.5	1.12e-002	9.763e-003

2317	1174	1159	0.4978	9.e-003	7.845e-003
2318	1174	1159	0.5017	1.29e-002	1.124e-002
2319	1175	1160	0.4991	1.03e-002	8.978e-003
2320	1175	1160	0.5001	1.13e-002	9.85e-003
2321	1176	1160	0.4987	9.9e-003	8.63e-003
2322	1176	1160	0.5051	1.63e-002	1.421e-002
2323	1177	1162	0.4957	6.9e-003	6.015e-003
2324	1177	1162	0.5018	1.3e-002	1.133e-002
2325	1178	1163	0.4985	9.7e-003	8.455e-003
2326	1178	1163	0.5061	1.73e-002	1.508e-002
2327	1179	1164	0.5015	1.27e-002	1.107e-002
2328	1179	1164	0.4993	1.05e-002	9.153e-003
2329	1180	1165	0.5024	1.36e-002	1.185e-002
2330	1180	1165	0.5051	1.63e-002	1.421e-002
2331	1181	1166	0.5024	1.36e-002	1.185e-002
2332	1181	1166	0.5009	1.21e-002	1.055e-002
2333	1182	1167	0.5017	1.29e-002	1.124e-002
2334	1182	1167	0.5002	1.14e-002	9.937e-003
2335	1183	1168	0.4967	7.9e-003	6.886e-003
2336	1183	1168	0.4994	1.06e-002	9.24e-003
2337	1184	1169	0.4996	1.08e-002	9.414e-003
2338	1184	1169	0.4999	1.11e-002	9.676e-003
2339	1185	1170	0.5002	1.14e-002	9.937e-003
2340	1185	1170	0.496	7.2e-003	6.276e-003
2341	1186	1171	0.5012	1.24e-002	1.081e-002
2342	1186	1171	0.5015	1.27e-002	1.107e-002
2343	1187	1172	0.5008	1.2e-002	1.046e-002
2344	1187	1172	0.4972	8.4e-003	7.322e-003
2345	1188	1173	0.4997	1.09e-002	9.501e-003
2346	1188	1173	0.502	1.32e-002	1.151e-002
2347	1189	1174	0.4985	9.7e-003	8.455e-003
2348	1189	1174	0.4978	9.e-003	7.845e-003
2349	1190	1175	0.5003	1.15e-002	1.002e-002
2350	1190	1175	0.4967	7.9e-003	6.886e-003
2351	1191	1176	0.5	1.12e-002	9.763e-003
2352	1191	1176	0.5008	1.2e-002	1.046e-002
2353	1192	1177	0.4972	8.4e-003	7.322e-003
2354	1192	1177	0.4994	1.06e-002	9.24e-003
2355	1193	1178	0.5014	1.26e-002	1.098e-002
2356	1193	1178	0.4991	1.03e-002	8.978e-003
2357	1194	1179	0.5024	1.36e-002	1.185e-002
2358	1194	1179	0.503	1.42e-002	1.238e-002
2359	1195	1180	0.5008	1.2e-002	1.046e-002
2360	1195	1180	0.5041	1.53e-002	1.334e-002
2361	1196	1180	0.4997	1.09e-002	9.501e-003
2362	1196	1180	0.5073	1.85e-002	1.613e-002
2363	1197	1182	0.5011	1.23e-002	1.072e-002
2364	1197	1182	0.4966	7.8e-003	6.799e-003
2365	1198	1183	0.4979	9.1e-003	7.932e-003
2366	1198	1183	0.5002	1.14e-002	9.937e-003
2367	1199	1184	0.5018	1.3e-002	1.133e-002
2368	1199	1184	0.5003	1.15e-002	1.002e-002
2369	1200	1185	0.4982	9.4e-003	8.194e-003
2370	1200	1185	0.4995	1.07e-002	9.327e-003
2371	1201	1186	0.4969	8.1e-003	7.061e-003
2372	1201	1186	0.5006	1.18e-002	1.029e-002
2373	1202	1187	0.5023	1.35e-002	1.177e-002
2374	1202	1187	0.4975	8.7e-003	7.584e-003
2375	1203	1187	0.4972	8.4e-003	7.322e-003
2376	1203	1187	0.4979	9.1e-003	7.932e-003

2377	1204	1189	0.4982	9.4e-003	8.194e-003
2378	1204	1189	0.5002	1.14e-002	9.937e-003
2379	1205	1190	0.5011	1.23e-002	1.072e-002
2380	1205	1190	0.4979	9.1e-003	7.932e-003
2381	1206	1191	0.4988	1.e-002	8.717e-003
2382	1206	1191	0.5003	1.15e-002	1.002e-002
2383	1207	1192	0.4982	9.4e-003	8.194e-003
2384	1207	1192	0.5026	1.38e-002	1.203e-002
2385	1208	1193	0.4979	9.1e-003	7.932e-003
2386	1208	1193	0.4975	8.7e-003	7.584e-003
2387	1209	1194	0.4994	1.06e-002	9.24e-003
2388	1209	1194	0.5014	1.26e-002	1.098e-002
2389	1210	1194	0.5018	1.3e-002	1.133e-002
2390	1210	1194	0.4987	9.9e-003	8.63e-003
2391	1211	1196	0.5024	1.36e-002	1.185e-002
2392	1211	1196	0.5006	1.18e-002	1.029e-002
2393	1212	1197	0.4987	9.9e-003	8.63e-003
2394	1212	1197	0.497	8.2e-003	7.148e-003
2395	1213	1198	0.5012	1.24e-002	1.081e-002
2396	1213	1198	0.4967	7.9e-003	6.886e-003
2397	1214	1199	0.4996	1.08e-002	9.414e-003
2398	1214	1199	0.4981	9.3e-003	8.107e-003
2399	1215	1200	0.5006	1.18e-002	1.029e-002
2400	1215	1200	0.502	1.32e-002	1.151e-002
2401	1216	1201	0.4978	9.e-003	7.845e-003
2402	1216	1201	0.4985	9.7e-003	8.455e-003
2403	1217	1201	0.4993	1.05e-002	9.153e-003
2404	1217	1201	0.5005	1.17e-002	1.02e-002
2405	1218	1203	0.5006	1.18e-002	1.029e-002
2406	1218	1203	0.5047	1.59e-002	1.386e-002
2407	1219	1204	0.4973	8.5e-003	7.409e-003
2408	1219	1204	0.497	8.2e-003	7.148e-003
2409	1220	1205	0.5005	1.17e-002	1.02e-002
2410	1220	1205	0.4999	1.11e-002	9.676e-003
2411	1221	1206	0.5012	1.24e-002	1.081e-002
2412	1221	1206	0.4994	1.06e-002	9.24e-003
2413	1222	1207	0.5	1.12e-002	9.763e-003
2414	1222	1207	0.4987	9.9e-003	8.63e-003
2415	1223	1208	0.4984	9.6e-003	8.368e-003
2416	1223	1208	0.4996	1.08e-002	9.414e-003
2417	1224	1208	0.5008	1.2e-002	1.046e-002
2418	1224	1208	0.4997	1.09e-002	9.501e-003
2419	1225	1210	0.4993	1.05e-002	9.153e-003
2420	1225	1210	0.4999	1.11e-002	9.676e-003
2421	1226	1211	0.497	8.2e-003	7.148e-003
2422	1226	1211	0.4988	1.e-002	8.717e-003
2423	1227	1212	0.4985	9.7e-003	8.455e-003
2424	1227	1212	0.5017	1.29e-002	1.124e-002
2425	1228	1213	0.4963	7.5e-003	6.538e-003
2426	1228	1213	0.4988	1.e-002	8.717e-003
2427	1229	1214	0.5014	1.26e-002	1.098e-002
2428	1229	1214	0.5048	1.6e-002	1.395e-002
2429	1230	1215	0.4996	1.08e-002	9.414e-003
2430	1230	1215	0.5009	1.21e-002	1.055e-002
2431	1231	1215	0.4984	9.6e-003	8.368e-003
2432	1231	1215	0.4982	9.4e-003	8.194e-003
2433	1232	1217	0.4978	9.e-003	7.845e-003
2434	1232	1217	0.4998	1.1e-002	9.589e-003
2435	1233	1218	0.497	8.2e-003	7.148e-003
2436	1233	1218	0.5	1.12e-002	9.763e-003

2437	1234	1219	0.5003	1.15e-002	1.002e-002
2438	1234	1219	0.4997	1.09e-002	9.501e-003
2439	1235	1220	0.5023	1.35e-002	1.177e-002
2440	1235	1220	0.506	1.72e-002	1.499e-002
2441	1236	1221	0.4978	9.e-003	7.845e-003
2442	1236	1221	0.4967	7.9e-003	6.886e-003
2443	1237	1222	0.5002	1.14e-002	9.937e-003
2444	1237	1222	0.5012	1.24e-002	1.081e-002
2445	1238	1222	0.5003	1.15e-002	1.002e-002
2446	1238	1222	0.5003	1.15e-002	1.002e-002
2447	1239	1224	0.4933	4.5e-003	3.923e-003
2448	1239	1224	0.497	8.2e-003	7.148e-003
2449	1240	1225	0.4984	9.6e-003	8.368e-003
2450	1240	1225	0.4999	1.11e-002	9.676e-003
2451	1241	1226	0.4978	9.e-003	7.845e-003
2452	1241	1226	0.4963	7.5e-003	6.538e-003
2453	1242	1227	0.4994	1.06e-002	9.24e-003
2454	1242	1227	0.5037	1.49e-002	1.299e-002
2455	1243	1228	0.5006	1.18e-002	1.029e-002
2456	1243	1228	0.5021	1.33e-002	1.159e-002
2457	1244	1229	0.4993	1.05e-002	9.153e-003
2458	1244	1229	0.4985	9.7e-003	8.455e-003
2459	1245	1230	0.5	1.12e-002	9.763e-003
2460	1245	1230	0.5002	1.14e-002	9.937e-003
2461	1246	1231	0.502	1.32e-002	1.151e-002
2462	1246	1231	0.4998	1.1e-002	9.589e-003
2463	1247	1232	0.4958	7.e-003	6.102e-003
2464	1247	1232	0.4997	1.09e-002	9.501e-003
2465	1248	1233	0.506	1.72e-002	1.499e-002
2466	1248	1233	0.4981	9.3e-003	8.107e-003
2467	1249	1234	0.4991	1.03e-002	8.978e-003
2468	1249	1234	0.4967	7.9e-003	6.886e-003
2469	1250	1235	0.4978	9.e-003	7.845e-003
2470	1250	1235	0.4988	1.e-002	8.717e-003
2471	1251	1236	0.5018	1.3e-002	1.133e-002
2472	1251	1236	0.5008	1.2e-002	1.046e-002
2473	1252	1237	0.4981	9.3e-003	8.107e-003
2474	1252	1237	0.4967	7.9e-003	6.886e-003
2475	1253	1238	0.4978	9.e-003	7.845e-003
2476	1253	1238	0.4996	1.08e-002	9.414e-003
2477	1254	1239	0.5	1.12e-002	9.763e-003
2478	1254	1239	0.4997	1.09e-002	9.501e-003
2479	1255	1240	0.497	8.2e-003	7.148e-003
2480	1255	1240	0.4979	9.1e-003	7.932e-003
2481	1256	1241	0.4996	1.08e-002	9.414e-003
2482	1256	1241	0.4978	9.e-003	7.845e-003
2483	1257	1242	0.4993	1.05e-002	9.153e-003
2484	1257	1242	0.5018	1.3e-002	1.133e-002
2485	1258	1242	0.4981	9.3e-003	8.107e-003
2486	1258	1242	0.5027	1.39e-002	1.212e-002
2487	1259	1244	0.4999	1.11e-002	9.676e-003
2488	1259	1244	0.5002	1.14e-002	9.937e-003
2489	1260	1245	0.4988	1.e-002	8.717e-003
2490	1260	1245	0.4984	9.6e-003	8.368e-003
2491	1261	1246	0.4961	7.3e-003	6.363e-003
2492	1261	1246	0.499	1.02e-002	8.891e-003
2493	1262	1247	0.4981	9.3e-003	8.107e-003
2494	1262	1247	0.5035	1.47e-002	1.281e-002
2495	1263	1248	0.4984	9.6e-003	8.368e-003
2496	1263	1248	0.4991	1.03e-002	8.978e-003

2497	1264	1249	0.5006	1.18e-002	1.029e-002
2498	1264	1249	0.497	8.2e-003	7.148e-003
2499	1265	1249	0.5	1.12e-002	9.763e-003
2500	1265	1249	0.4993	1.05e-002	9.153e-003
2501	1266	1251	0.4991	1.03e-002	8.978e-003
2502	1266	1251	0.5018	1.3e-002	1.133e-002
2503	1267	1252	0.5014	1.26e-002	1.098e-002
2504	1267	1252	0.5014	1.26e-002	1.098e-002
2505	1268	1253	0.5045	1.57e-002	1.369e-002
2506	1268	1253	0.498	9.2e-003	8.02e-003
2507	1269	1254	0.499	1.02e-002	8.891e-003
2508	1269	1254	0.4987	9.9e-003	8.63e-003
2509	1270	1255	0.5017	1.29e-002	1.124e-002
2510	1270	1255	0.5006	1.18e-002	1.029e-002
2511	1271	1256	0.4984	9.6e-003	8.368e-003
2512	1271	1256	0.5029	1.41e-002	1.229e-002
2513	1272	1256	0.4957	6.9e-003	6.015e-003
2514	1272	1256	0.4988	1.e-002	8.717e-003
2515	1273	1258	0.5004	1.16e-002	1.011e-002
2516	1273	1258	0.4987	9.9e-003	8.63e-003
2517	1274	1259	0.4972	8.4e-003	7.322e-003
2518	1274	1259	0.5012	1.24e-002	1.081e-002
2519	1275	1260	0.5018	1.3e-002	1.133e-002
2520	1275	1260	0.5032	1.44e-002	1.255e-002
2521	1276	1261	0.499	1.02e-002	8.891e-003
2522	1276	1261	0.5005	1.17e-002	1.02e-002
2523	1277	1262	0.4948	6.e-003	5.23e-003
2524	1277	1262	0.4981	9.3e-003	8.107e-003
2525	1278	1263	0.5041	1.53e-002	1.334e-002
2526	1278	1263	0.4994	1.06e-002	9.24e-003
2527	1279	1263	0.5027	1.39e-002	1.212e-002
2528	1279	1263	0.4997	1.09e-002	9.501e-003
2529	1280	1265	0.5005	1.17e-002	1.02e-002
2530	1280	1265	0.5016	1.28e-002	1.116e-002
2531	1281	1266	0.4963	7.5e-003	6.538e-003
2532	1281	1266	0.4988	1.e-002	8.717e-003
2533	1282	1267	0.4991	1.03e-002	8.978e-003
2534	1282	1267	0.5015	1.27e-002	1.107e-002
2535	1283	1268	0.5005	1.17e-002	1.02e-002
2536	1283	1268	0.4972	8.4e-003	7.322e-003
2537	1284	1269	0.5017	1.29e-002	1.124e-002
2538	1284	1269	0.4968	8.e-003	6.974e-003
2539	1285	1270	0.5039	1.51e-002	1.316e-002
2540	1285	1270	0.497	8.2e-003	7.148e-003
2541	1286	1270	0.5032	1.44e-002	1.255e-002
2542	1286	1270	0.4987	9.9e-003	8.63e-003
2543	1287	1272	0.4975	8.7e-003	7.584e-003
2544	1287	1272	0.499	1.02e-002	8.891e-003
2545	1288	1273	0.4978	9.e-003	7.845e-003
2546	1288	1273	0.4958	7.e-003	6.102e-003
2547	1289	1274	0.5006	1.18e-002	1.029e-002
2548	1289	1274	0.5017	1.29e-002	1.124e-002
2549	1290	1275	0.4952	6.4e-003	5.579e-003
2550	1290	1275	0.4979	9.1e-003	7.932e-003
2551	1291	1276	0.4991	1.03e-002	8.978e-003
2552	1291	1276	0.503	1.42e-002	1.238e-002
2553	1292	1277	0.4979	9.1e-003	7.932e-003
2554	1292	1277	0.4981	9.3e-003	8.107e-003
2555	1293	1277	0.5002	1.14e-002	9.937e-003
2556	1293	1277	0.4967	7.9e-003	6.886e-003

2557	1294	1279	0.4982	9.4e-003	8.194e-003
2558	1294	1279	0.4922	3.4e-003	2.964e-003
2559	1295	1280	0.4993	1.05e-002	9.153e-003
2560	1295	1280	0.4969	8.1e-003	7.061e-003
2561	1296	1281	0.4951	6.3e-003	5.492e-003
2562	1296	1281	0.4957	6.9e-003	6.015e-003
2563	1297	1282	0.4966	7.8e-003	6.799e-003
2564	1297	1282	0.4964	7.6e-003	6.625e-003
2565	1298	1283	0.4961	7.3e-003	6.363e-003
2566	1298	1283	0.4982	9.4e-003	8.194e-003
2567	1299	1284	0.4995	1.07e-002	9.327e-003
2568	1299	1284	0.4958	7.e-003	6.102e-003
2569	1300	1284	0.5043	1.55e-002	1.351e-002
2570	1300	1284	0.5	1.12e-002	9.763e-003
2571	1301	1286	0.5003	1.15e-002	1.002e-002
2572	1301	1286	0.5	1.12e-002	9.763e-003
2573	1302	1287	0.4996	1.08e-002	9.414e-003
2574	1302	1287	0.4984	9.6e-003	8.368e-003
2575	1303	1288	0.4979	9.1e-003	7.932e-003
2576	1303	1288	0.4975	8.7e-003	7.584e-003
2577	1304	1289	0.4994	1.06e-002	9.24e-003
2578	1304	1289	0.4975	8.7e-003	7.584e-003
2579	1305	1290	0.497	8.2e-003	7.148e-003
2580	1305	1290	0.4991	1.03e-002	8.978e-003
2581	1306	1291	0.5009	1.21e-002	1.055e-002
2582	1306	1291	0.5003	1.15e-002	1.002e-002
2583	1307	1292	0.5034	1.46e-002	1.273e-002
2584	1307	1292	0.4937	4.9e-003	4.271e-003
2585	1308	1293	0.4967	7.9e-003	6.886e-003
2586	1308	1293	0.4971	8.3e-003	7.235e-003
2587	1309	1294	0.5009	1.21e-002	1.055e-002
2588	1309	1294	0.4969	8.1e-003	7.061e-003
2589	1310	1295	0.5017	1.29e-002	1.124e-002
2590	1310	1295	0.4972	8.4e-003	7.322e-003
2591	1311	1296	0.4966	7.8e-003	6.799e-003
2592	1311	1296	0.4976	8.8e-003	7.671e-003
2593	1312	1297	0.4997	1.09e-002	9.501e-003
2594	1312	1297	0.4963	7.5e-003	6.538e-003
2595	1313	1298	0.4939	5.1e-003	4.446e-003
2596	1313	1298	0.4999	1.11e-002	9.676e-003
2597	1314	1299	0.497	8.2e-003	7.148e-003
2598	1314	1299	0.4994	1.06e-002	9.24e-003
2599	1315	1300	0.5006	1.18e-002	1.029e-002
2600	1315	1300	0.5006	1.18e-002	1.029e-002
2601	1316	1301	0.4987	9.9e-003	8.63e-003
2602	1316	1301	0.4985	9.7e-003	8.455e-003
2603	1317	1302	0.5003	1.15e-002	1.002e-002
2604	1317	1302	0.4987	9.9e-003	8.63e-003
2605	1318	1303	0.4972	8.4e-003	7.322e-003
2606	1318	1303	0.4981	9.3e-003	8.107e-003
2607	1319	1304	0.4979	9.1e-003	7.932e-003
2608	1319	1304	0.4981	9.3e-003	8.107e-003
2609	1320	1304	0.4978	9.e-003	7.845e-003
2610	1320	1304	0.4987	9.9e-003	8.63e-003
2611	1321	1306	0.4967	7.9e-003	6.886e-003
2612	1321	1306	0.497	8.2e-003	7.148e-003
2613	1322	1307	0.4972	8.4e-003	7.322e-003
2614	1322	1307	0.5012	1.24e-002	1.081e-002
2615	1323	1308	0.4978	9.e-003	7.845e-003
2616	1323	1308	0.4992	1.04e-002	9.066e-003

2617	1324	1309	0.4976	8.8e-003	7.671e-003
2618	1324	1309	0.4978	9.e-003	7.845e-003
2619	1325	1310	0.4963	7.5e-003	6.538e-003
2620	1325	1310	0.4951	6.3e-003	5.492e-003
2621	1326	1311	0.4991	1.03e-002	8.978e-003
2622	1326	1311	0.5005	1.17e-002	1.02e-002
2623	1327	1311	0.499	1.02e-002	8.891e-003
2624	1327	1311	0.4963	7.5e-003	6.538e-003
2625	1328	1313	0.4987	9.9e-003	8.63e-003
2626	1328	1313	0.503	1.42e-002	1.238e-002
2627	1329	1314	0.4984	9.6e-003	8.368e-003
2628	1329	1314	0.4988	1.e-002	8.717e-003
2629	1330	1315	0.5007	1.19e-002	1.037e-002
2630	1330	1315	0.5	1.12e-002	9.763e-003
2631	1331	1316	0.4996	1.08e-002	9.414e-003
2632	1331	1316	0.497	8.2e-003	7.148e-003
2633	1332	1317	0.4976	8.8e-003	7.671e-003
2634	1332	1317	0.4957	6.9e-003	6.015e-003
2635	1333	1318	0.4945	5.7e-003	4.969e-003
2636	1333	1318	0.5007	1.19e-002	1.037e-002
2637	1334	1318	0.5012	1.24e-002	1.081e-002
2638	1334	1318	0.4945	5.7e-003	4.969e-003
2639	1335	1320	0.5027	1.39e-002	1.212e-002
2640	1335	1320	0.5	1.12e-002	9.763e-003
2641	1336	1321	0.5014	1.26e-002	1.098e-002
2642	1336	1321	0.4988	1.e-002	8.717e-003
2643	1337	1322	0.4966	7.8e-003	6.799e-003
2644	1337	1322	0.5024	1.36e-002	1.185e-002
2645	1338	1323	0.4967	7.9e-003	6.886e-003
2646	1338	1323	0.4978	9.e-003	7.845e-003
2647	1339	1324	0.5015	1.27e-002	1.107e-002
2648	1339	1324	0.5019	1.31e-002	1.142e-002
2649	1340	1325	0.4981	9.3e-003	8.107e-003
2650	1340	1325	0.4973	8.5e-003	7.409e-003
2651	1341	1325	0.4996	1.08e-002	9.414e-003
2652	1341	1325	0.4946	5.8e-003	5.056e-003
2653	1342	1327	0.499	1.02e-002	8.891e-003
2654	1342	1327	0.5016	1.28e-002	1.116e-002
2655	1343	1328	0.4967	7.9e-003	6.886e-003
2656	1343	1328	0.5001	1.13e-002	9.85e-003
2657	1344	1329	0.497	8.2e-003	7.148e-003
2658	1344	1329	0.4967	7.9e-003	6.886e-003
2659	1345	1330	0.4948	6.e-003	5.23e-003
2660	1345	1330	0.4946	5.8e-003	5.056e-003
2661	1346	1331	0.4966	7.8e-003	6.799e-003
2662	1346	1331	0.4989	1.01e-002	8.804e-003
2663	1347	1332	0.4978	9.e-003	7.845e-003
2664	1347	1332	0.4997	1.09e-002	9.501e-003
2665	1348	1332	0.4978	9.e-003	7.845e-003
2666	1348	1332	0.4963	7.5e-003	6.538e-003
2667	1349	1334	0.4983	9.5e-003	8.281e-003
2668	1349	1334	0.4982	9.4e-003	8.194e-003
2669	1350	1335	0.4997	1.09e-002	9.501e-003
2670	1350	1335	0.4954	6.6e-003	5.753e-003
2671	1351	1336	0.4975	8.7e-003	7.584e-003
2672	1351	1336	0.4957	6.9e-003	6.015e-003
2673	1352	1337	0.4972	8.4e-003	7.322e-003
2674	1352	1337	0.5015	1.27e-002	1.107e-002
2675	1353	1338	0.4954	6.6e-003	5.753e-003
2676	1353	1338	0.4987	9.9e-003	8.63e-003

2677	1354	1339	0.4978	9.e-003	7.845e-003
2678	1354	1339	0.4999	1.11e-002	9.676e-003
2679	1355	1340	0.499	1.02e-002	8.891e-003
2680	1355	1340	0.5006	1.18e-002	1.029e-002
2681	1356	1341	0.4975	8.7e-003	7.584e-003
2682	1356	1341	0.4988	1.e-002	8.717e-003
2683	1357	1342	0.4985	9.7e-003	8.455e-003
2684	1357	1342	0.5004	1.16e-002	1.011e-002
2685	1358	1343	0.5027	1.39e-002	1.212e-002
2686	1358	1343	0.497	8.2e-003	7.148e-003
2687	1359	1344	0.4985	9.7e-003	8.455e-003
2688	1359	1344	0.4987	9.9e-003	8.63e-003
2689	1360	1345	0.4967	7.9e-003	6.886e-003
2690	1360	1345	0.4978	9.e-003	7.845e-003
2691	1361	1346	0.499	1.02e-002	8.891e-003
2692	1361	1346	0.5022	1.34e-002	1.168e-002
2693	1362	1347	0.4993	1.05e-002	9.153e-003
2694	1362	1347	0.4997	1.09e-002	9.501e-003
2695	1363	1348	0.4964	7.6e-003	6.625e-003
2696	1363	1348	0.4988	1.e-002	8.717e-003
2697	1364	1349	0.4976	8.8e-003	7.671e-003
2698	1364	1349	0.4994	1.06e-002	9.24e-003
2699	1365	1350	0.4979	9.1e-003	7.932e-003
2700	1365	1350	0.4973	8.5e-003	7.409e-003
2701	1366	1351	0.497	8.2e-003	7.148e-003
2702	1366	1351	0.5005	1.17e-002	1.02e-002
2703	1366	1351	0.4993	1.05e-002	9.153e-003
2704	1367	1352	0.5044	1.56e-002	1.36e-002
2705	1368	1353	0.4978	9.e-003	7.845e-003
2706	1368	1353	0.4975	8.7e-003	7.584e-003
2707	1369	1354	0.5002	1.14e-002	9.937e-003
2708	1369	1354	0.4961	7.3e-003	6.363e-003
2709	1370	1355	0.4979	9.1e-003	7.932e-003
2710	1370	1355	0.4964	7.6e-003	6.625e-003
2711	1371	1356	0.4979	9.1e-003	7.932e-003
2712	1371	1356	0.5038	1.5e-002	1.308e-002
2713	1372	1357	0.5028	1.4e-002	1.22e-002
2714	1372	1357	0.5017	1.29e-002	1.124e-002
2715	1373	1358	0.4984	9.6e-003	8.368e-003
2716	1373	1358	0.4979	9.1e-003	7.932e-003
2717	1373	1358	0.4982	9.4e-003	8.194e-003
2718	1374	1359	0.4973	8.5e-003	7.409e-003
2719	1375	1360	0.5027	1.39e-002	1.212e-002
2720	1375	1360	0.4954	6.6e-003	5.753e-003
2721	1376	1361	0.5018	1.3e-002	1.133e-002
2722	1376	1361	0.4995	1.07e-002	9.327e-003
2723	1377	1362	0.4981	9.3e-003	8.107e-003
2724	1377	1362	0.4998	1.1e-002	9.589e-003
2725	1378	1363	0.4999	1.11e-002	9.676e-003
2726	1378	1363	0.4966	7.8e-003	6.799e-003
2727	1379	1364	0.496	7.2e-003	6.276e-003
2728	1379	1364	0.4993	1.05e-002	9.153e-003
2729	1380	1365	0.5005	1.17e-002	1.02e-002
2730	1380	1365	0.4966	7.8e-003	6.799e-003
2731	1380	1365	0.4963	7.5e-003	6.538e-003
2732	1381	1366	0.4981	9.3e-003	8.107e-003
2733	1382	1367	0.5006	1.18e-002	1.029e-002
2734	1382	1367	0.4974	8.6e-003	7.497e-003
2735	1383	1368	0.4981	9.3e-003	8.107e-003
2736	1383	1368	0.497	8.2e-003	7.148e-003

2737	1384	1369	0.497	8.2e-003	7.148e-003
2738	1384	1369	0.5003	1.15e-002	1.002e-002
2739	1385	1370	0.4994	1.06e-002	9.24e-003
2740	1385	1370	0.4942	5.4e-003	4.707e-003
2741	1386	1371	0.4981	9.3e-003	8.107e-003
2742	1386	1371	0.4958	7.e-003	6.102e-003
2743	1387	1372	0.4987	9.9e-003	8.63e-003
2744	1387	1372	0.4957	6.9e-003	6.015e-003
2745	1387	1372	0.4994	1.06e-002	9.24e-003
2746	1388	1373	0.4949	6.1e-003	5.317e-003
2747	1389	1374	0.4967	7.9e-003	6.886e-003
2748	1389	1374	0.5011	1.23e-002	1.072e-002
2749	1390	1375	0.4984	9.6e-003	8.368e-003
2750	1390	1375	0.4958	7.e-003	6.102e-003
2751	1391	1376	0.4981	9.3e-003	8.107e-003
2752	1391	1376	0.4951	6.3e-003	5.492e-003
2753	1392	1377	0.4999	1.11e-002	9.676e-003
2754	1392	1377	0.4984	9.6e-003	8.368e-003
2755	1393	1378	0.4963	7.5e-003	6.538e-003
2756	1393	1378	0.4951	6.3e-003	5.492e-003
2757	1394	1379	0.4975	8.7e-003	7.584e-003
2758	1394	1379	0.5011	1.23e-002	1.072e-002
2759	1394	1379	0.4963	7.5e-003	6.538e-003
2760	1395	1380	0.4966	7.8e-003	6.799e-003
2761	1396	1381	0.497	8.2e-003	7.148e-003
2762	1396	1381	0.4988	1.e-002	8.717e-003
2763	1397	1382	0.5012	1.24e-002	1.081e-002
2764	1397	1382	0.4982	9.4e-003	8.194e-003
2765	1398	1383	0.4976	8.8e-003	7.671e-003
2766	1398	1383	0.4958	7.e-003	6.102e-003
2767	1399	1384	0.5	1.12e-002	9.763e-003
2768	1399	1384	0.4992	1.04e-002	9.066e-003
2769	1400	1385	0.5009	1.21e-002	1.055e-002
2770	1400	1385	0.4963	7.5e-003	6.538e-003
2771	1401	1386	0.4963	7.5e-003	6.538e-003
2772	1401	1386	0.4963	7.5e-003	6.538e-003
2773	1401	1386	0.4995	1.07e-002	9.327e-003
2774	1402	1387	0.5022	1.34e-002	1.168e-002
2775	1403	1388	0.4988	1.e-002	8.717e-003
2776	1403	1388	0.5009	1.21e-002	1.055e-002
2777	1404	1389	0.4967	7.9e-003	6.886e-003
2778	1404	1389	0.5003	1.15e-002	1.002e-002
2779	1405	1390	0.4967	7.9e-003	6.886e-003
2780	1405	1390	0.4985	9.7e-003	8.455e-003
2781	1406	1391	0.496	7.2e-003	6.276e-003
2782	1406	1391	0.4964	7.6e-003	6.625e-003
2783	1407	1392	0.4975	8.7e-003	7.584e-003
2784	1407	1392	0.4961	7.3e-003	6.363e-003
2785	1408	1393	0.497	8.2e-003	7.148e-003
2786	1408	1393	0.4954	6.6e-003	5.753e-003
2787	1408	1393	0.4964	7.6e-003	6.625e-003
2788	1409	1394	0.4982	9.4e-003	8.194e-003
2789	1410	1395	0.4978	9.e-003	7.845e-003
2790	1410	1395	0.4982	9.4e-003	8.194e-003
2791	1411	1396	0.4982	9.4e-003	8.194e-003
2792	1411	1396	0.4973	8.5e-003	7.409e-003
2793	1412	1397	0.499	1.02e-002	8.891e-003
2794	1412	1397	0.5009	1.21e-002	1.055e-002
2795	1413	1398	0.4969	8.1e-003	7.061e-003
2796	1413	1398	0.4972	8.4e-003	7.322e-003

2797	1414	1399	0.4969	8.1e-003	7.061e-003
2798	1414	1399	0.501	1.22e-002	1.063e-002
2799	1415	1400	0.4988	1.e-002	8.717e-003
2800	1415	1400	0.4949	6.1e-003	5.317e-003
2801	1416	1401	0.4978	9.e-003	7.845e-003
2802	1416	1401	0.4967	7.9e-003	6.886e-003
2803	1417	1402	0.4973	8.5e-003	7.409e-003
2804	1417	1402	0.491	2.2e-003	1.918e-003
2805	1418	1403	0.5007	1.19e-002	1.037e-002
2806	1418	1403	0.4979	9.1e-003	7.932e-003
2807	1419	1404	0.4995	1.07e-002	9.327e-003
2808	1419	1404	0.5039	1.51e-002	1.316e-002
2809	1420	1405	0.5003	1.15e-002	1.002e-002
2810	1420	1405	0.501	1.22e-002	1.063e-002
2811	1421	1406	0.4982	9.4e-003	8.194e-003
2812	1421	1406	0.5016	1.28e-002	1.116e-002
2813	1421	1406	0.4985	9.7e-003	8.455e-003
2814	1422	1407	0.5004	1.16e-002	1.011e-002
2815	1423	1408	0.4987	9.9e-003	8.63e-003
2816	1423	1408	0.4976	8.8e-003	7.671e-003
2817	1424	1409	0.4988	1.e-002	8.717e-003
2818	1424	1409	0.4975	8.7e-003	7.584e-003
2819	1425	1410	0.4994	1.06e-002	9.24e-003
2820	1425	1410	0.4982	9.4e-003	8.194e-003
2821	1426	1411	0.4991	1.03e-002	8.978e-003
2822	1426	1411	0.4961	7.3e-003	6.363e-003
2823	1427	1412	0.4985	9.7e-003	8.455e-003
2824	1427	1412	0.4994	1.06e-002	9.24e-003
2825	1428	1413	0.496	7.2e-003	6.276e-003
2826	1428	1413	0.4988	1.e-002	8.717e-003
2827	1428	1413	0.4967	7.9e-003	6.886e-003
2828	1429	1414	0.4976	8.8e-003	7.671e-003
2829	1430	1415	0.4984	9.6e-003	8.368e-003
2830	1430	1415	0.5049	1.61e-002	1.403e-002
2831	1431	1416	0.4966	7.8e-003	6.799e-003
2832	1431	1416	0.5024	1.36e-002	1.185e-002
2833	1432	1417	0.4978	9.e-003	7.845e-003
2834	1432	1417	0.5028	1.4e-002	1.22e-002
2835	1433	1418	0.4991	1.03e-002	8.978e-003
2836	1433	1418	0.5013	1.25e-002	1.09e-002
2837	1434	1419	0.4984	9.6e-003	8.368e-003
2838	1434	1419	0.5006	1.18e-002	1.029e-002
2839	1435	1420	0.4973	8.5e-003	7.409e-003
2840	1435	1420	0.4996	1.08e-002	9.414e-003
2841	1435	1420	0.4981	9.3e-003	8.107e-003
2842	1436	1421	0.494	5.2e-003	4.533e-003
2843	1437	1422	0.494	5.2e-003	4.533e-003
2844	1437	1422	0.4984	9.6e-003	8.368e-003
2845	1438	1423	0.4967	7.9e-003	6.886e-003
2846	1438	1423	0.4949	6.1e-003	5.317e-003
2847	1439	1424	0.4997	1.09e-002	9.501e-003
2848	1439	1424	0.5024	1.36e-002	1.185e-002
2849	1440	1425	0.5012	1.24e-002	1.081e-002
2850	1440	1425	0.5013	1.25e-002	1.09e-002
2851	1441	1426	0.4981	9.3e-003	8.107e-003
2852	1441	1426	0.5008	1.2e-002	1.046e-002
2853	1442	1427	0.503	1.42e-002	1.238e-002
2854	1442	1427	0.4985	9.7e-003	8.455e-003
2855	1442	1427	0.4937	4.9e-003	4.271e-003
2856	1443	1428	0.4966	7.8e-003	6.799e-003

2857	1444	1429	0.498	9.2e-003	8.02e-003
2858	1444	1429	0.4982	9.4e-003	8.194e-003
2859	1445	1430	0.5005	1.17e-002	1.02e-002
2860	1445	1430	0.4979	9.1e-003	7.932e-003
2861	1446	1431	0.4994	1.06e-002	9.24e-003
2862	1446	1431	0.4949	6.1e-003	5.317e-003
2863	1447	1432	0.4964	7.6e-003	6.625e-003
2864	1447	1432	0.5024	1.36e-002	1.185e-002
2865	1448	1433	0.5016	1.28e-002	1.116e-002
2866	1448	1433	0.4961	7.3e-003	6.363e-003
2867	1449	1434	0.4972	8.4e-003	7.322e-003
2868	1449	1434	0.5009	1.21e-002	1.055e-002
2869	1449	1434	0.4969	8.1e-003	7.061e-003
2870	1450	1435	0.496	7.2e-003	6.276e-003
2871	1451	1436	0.4953	6.5e-003	5.666e-003
2872	1451	1436	0.4974	8.6e-003	7.497e-003
2873	1452	1437	0.5018	1.3e-002	1.133e-002
2874	1452	1437	0.4954	6.6e-003	5.753e-003
2875	1453	1438	0.4991	1.03e-002	8.978e-003
2876	1453	1438	0.4946	5.8e-003	5.056e-003
2877	1454	1439	0.4949	6.1e-003	5.317e-003
2878	1454	1439	0.4979	9.1e-003	7.932e-003
2879	1455	1440	0.4961	7.3e-003	6.363e-003
2880	1455	1440	0.4954	6.6e-003	5.753e-003
2881	1456	1441	0.4969	8.1e-003	7.061e-003
2882	1456	1441	0.5	1.12e-002	9.763e-003
2883	1456	1441	0.496	7.2e-003	6.276e-003
2884	1457	1442	0.4998	1.1e-002	9.589e-003
2885	1458	1443	0.4994	1.06e-002	9.24e-003
2886	1458	1443	0.5006	1.18e-002	1.029e-002
2887	1459	1444	0.4955	6.7e-003	5.84e-003
2888	1459	1444	0.4956	6.8e-003	5.927e-003
2889	1460	1445	0.4927	3.9e-003	3.4e-003
2890	1460	1445	0.5	1.12e-002	9.763e-003
2891	1461	1446	0.4963	7.5e-003	6.538e-003
2892	1461	1446	0.496	7.2e-003	6.276e-003
2893	1462	1447	0.4955	6.7e-003	5.84e-003
2894	1462	1447	0.4976	8.8e-003	7.671e-003
2895	1463	1448	0.4964	7.6e-003	6.625e-003
2896	1463	1448	0.4967	7.9e-003	6.886e-003
2897	1463	1448	0.4958	7.e-003	6.102e-003
2898	1464	1449	0.5002	1.14e-002	9.937e-003
2899	1465	1450	0.4985	9.7e-003	8.455e-003
2900	1465	1450	0.5018	1.3e-002	1.133e-002
2901	1466	1451	0.5003	1.15e-002	1.002e-002
2902	1466	1451	0.5015	1.27e-002	1.107e-002
2903	1467	1452	0.4946	5.8e-003	5.056e-003
2904	1467	1452	0.4973	8.5e-003	7.409e-003
2905	1468	1453	0.5038	1.5e-002	1.308e-002
2906	1468	1453	0.4991	1.03e-002	8.978e-003
2907	1469	1454	0.4984	9.6e-003	8.368e-003
2908	1469	1454	0.5018	1.3e-002	1.133e-002
2909	1470	1455	0.496	7.2e-003	6.276e-003
2910	1470	1455	0.4976	8.8e-003	7.671e-003
2911	1470	1455	0.4946	5.8e-003	5.056e-003
2912	1471	1456	0.4982	9.4e-003	8.194e-003
2913	1472	1457	0.4958	7.e-003	6.102e-003
2914	1472	1457	0.4991	1.03e-002	8.978e-003
2915	1473	1458	0.496	7.2e-003	6.276e-003
2916	1473	1458	0.5019	1.31e-002	1.142e-002

2917	1474	1459	0.5005	1.17e-002	1.02e-002
2918	1474	1459	0.4961	7.3e-003	6.363e-003
2919	1475	1460	0.4996	1.08e-002	9.414e-003
2920	1475	1460	0.4948	6.e-003	5.23e-003
2921	1476	1461	0.4975	8.7e-003	7.584e-003
2922	1476	1461	0.5	1.12e-002	9.763e-003
2923	1477	1462	0.4982	9.4e-003	8.194e-003
2924	1477	1462	0.4954	6.6e-003	5.753e-003
2925	1478	1463	0.5006	1.18e-002	1.029e-002
2926	1478	1463	0.5002	1.14e-002	9.937e-003
2927	1479	1464	0.4961	7.3e-003	6.363e-003
2928	1479	1464	0.5009	1.21e-002	1.055e-002
2929	1480	1465	0.4981	9.3e-003	8.107e-003
2930	1480	1465	0.4933	4.5e-003	3.923e-003
2931	1481	1466	0.5033	1.45e-002	1.264e-002
2932	1481	1466	0.4989	1.01e-002	8.804e-003
2933	1482	1467	0.4957	6.9e-003	6.015e-003
2934	1482	1467	0.4971	8.3e-003	7.235e-003
2935	1483	1468	0.5006	1.18e-002	1.029e-002
2936	1483	1468	0.4985	9.7e-003	8.455e-003
2937	1483	1468	0.4958	7.e-003	6.102e-003
2938	1484	1469	0.4973	8.5e-003	7.409e-003
2939	1485	1470	0.4972	8.4e-003	7.322e-003
2940	1485	1470	0.501	1.22e-002	1.063e-002
2941	1486	1471	0.4995	1.07e-002	9.327e-003
2942	1486	1471	0.5005	1.17e-002	1.02e-002
2943	1487	1472	0.496	7.2e-003	6.276e-003
2944	1487	1472	0.5032	1.44e-002	1.255e-002
2945	1488	1473	0.4973	8.5e-003	7.409e-003
2946	1488	1473	0.4997	1.09e-002	9.501e-003
2947	1489	1474	0.4964	7.6e-003	6.625e-003
2948	1489	1474	0.5003	1.15e-002	1.002e-002
2949	1490	1475	0.4991	1.03e-002	8.978e-003
2950	1490	1475	0.5003	1.15e-002	1.002e-002
2951	1490	1475	0.4987	9.9e-003	8.63e-003
2952	1491	1476	0.4943	5.5e-003	4.794e-003
2953	1492	1477	0.4997	1.09e-002	9.501e-003
2954	1492	1477	0.4975	8.7e-003	7.584e-003
2955	1493	1478	0.4988	1.e-002	8.717e-003
2956	1493	1478	0.4951	6.3e-003	5.492e-003
2957	1494	1479	0.4996	1.08e-002	9.414e-003
2958	1494	1479	0.494	5.2e-003	4.533e-003
2959	1495	1480	0.4986	9.8e-003	8.543e-003
2960	1495	1480	0.4978	9.e-003	7.845e-003
2961	1496	1481	0.4927	3.9e-003	3.4e-003
2962	1496	1481	0.5014	1.26e-002	1.098e-002
2963	1497	1482	0.4988	1.e-002	8.717e-003
2964	1497	1482	0.4966	7.8e-003	6.799e-003
2965	1497	1482	0.4939	5.1e-003	4.446e-003
2966	1498	1483	0.499	1.02e-002	8.891e-003
2967	1499	1484	0.4922	3.4e-003	2.964e-003
2968	1499	1484	0.4931	4.3e-003	3.748e-003
2969	1500	1485	0.4963	7.5e-003	6.538e-003
2970	1500	1485	0.4967	7.9e-003	6.886e-003
2971	1501	1486	0.5002	1.14e-002	9.937e-003
2972	1501	1486	0.4964	7.6e-003	6.625e-003
2973	1502	1487	0.4978	9.e-003	7.845e-003
2974	1502	1487	0.4994	1.06e-002	9.24e-003
2975	1503	1488	0.4978	9.e-003	7.845e-003
2976	1503	1488	0.497	8.2e-003	7.148e-003

2977	1504	1489	0.4978	9.e-003	7.845e-003
2978	1504	1489	0.4951	6.3e-003	5.492e-003
2979	1504	1489	0.4979	9.1e-003	7.932e-003
2980	1505	1490	0.497	8.2e-003	7.148e-003
2981	1506	1491	0.5002	1.14e-002	9.937e-003
2982	1506	1491	0.4965	7.7e-003	6.712e-003
2983	1507	1492	0.4992	1.04e-002	9.066e-003
2984	1507	1492	0.4948	6.e-003	5.23e-003
2985	1508	1493	0.4936	4.8e-003	4.184e-003
2986	1508	1493	0.4964	7.6e-003	6.625e-003
2987	1509	1494	0.4973	8.5e-003	7.409e-003
2988	1509	1494	0.4955	6.7e-003	5.84e-003
2989	1510	1495	0.4952	6.4e-003	5.579e-003
2990	1510	1495	0.494	5.2e-003	4.533e-003
2991	1511	1496	0.4946	5.8e-003	5.056e-003
2992	1511	1496	0.4931	4.3e-003	3.748e-003
2993	1511	1496	0.4985	9.7e-003	8.455e-003
2994	1512	1497	0.4985	9.7e-003	8.455e-003
2995	1513	1498	0.4972	8.4e-003	7.322e-003
2996	1513	1498	0.4988	1.e-002	8.717e-003
2997	1514	1499	0.5022	1.34e-002	1.168e-002
2998	1514	1499	0.4991	1.03e-002	8.978e-003
2999	1515	1500	0.4969	8.1e-003	7.061e-003
3000	1515	1500	0.4984	9.6e-003	8.368e-003
3001	1516	1501	0.4979	9.1e-003	7.932e-003
3002	1516	1501	0.5008	1.2e-002	1.046e-002
3003	1517	1502	0.4931	4.3e-003	3.748e-003
3004	1517	1502	0.4928	4.e-003	3.487e-003
3005	1518	1503	0.5051	1.63e-002	1.421e-002
3006	1518	1503	0.4968	8.e-003	6.974e-003
3007	1518	1503	0.497	8.2e-003	7.148e-003
3008	1519	1504	0.4997	1.09e-002	9.501e-003
3009	1520	1505	0.5002	1.14e-002	9.937e-003
3010	1520	1505	0.4966	7.8e-003	6.799e-003
3011	1521	1506	0.4973	8.5e-003	7.409e-003
3012	1521	1506	0.4972	8.4e-003	7.322e-003
3013	1522	1507	0.5006	1.18e-002	1.029e-002
3014	1522	1507	0.497	8.2e-003	7.148e-003
3015	1523	1508	0.4966	7.8e-003	6.799e-003
3016	1523	1508	0.4976	8.8e-003	7.671e-003
3017	1524	1509	0.4954	6.6e-003	5.753e-003
3018	1524	1509	0.4967	7.9e-003	6.886e-003
3019	1525	1510	0.5006	1.18e-002	1.029e-002
3020	1525	1510	0.5001	1.13e-002	9.85e-003
3021	1525	1510	0.497	8.2e-003	7.148e-003
3022	1526	1511	0.4946	5.8e-003	5.056e-003
3023	1527	1512	0.4954	6.6e-003	5.753e-003
3024	1527	1512	0.5023	1.35e-002	1.177e-002
3025	1528	1513	0.497	8.2e-003	7.148e-003
3026	1528	1513	0.4952	6.4e-003	5.579e-003
3027	1529	1514	0.4951	6.3e-003	5.492e-003
3028	1529	1514	0.4967	7.9e-003	6.886e-003
3029	1530	1515	0.4972	8.4e-003	7.322e-003
3030	1530	1515	0.4966	7.8e-003	6.799e-003
3031	1531	1516	0.4981	9.3e-003	8.107e-003
3032	1531	1516	0.4966	7.8e-003	6.799e-003
3033	1532	1517	0.4954	6.6e-003	5.753e-003
3034	1532	1517	0.5	1.12e-002	9.763e-003
3035	1532	1517	0.4957	6.9e-003	6.015e-003
3036	1533	1518	0.4976	8.8e-003	7.671e-003

3037	1534	1519	0.4954	6.6e-003	5.753e-003
3038	1534	1519	0.4985	9.7e-003	8.455e-003
3039	1535	1520	0.4991	1.03e-002	8.978e-003
3040	1535	1520	0.4961	7.3e-003	6.363e-003
3041	1536	1521	0.4973	8.5e-003	7.409e-003
3042	1536	1521	0.4987	9.9e-003	8.63e-003
3043	1537	1522	0.4976	8.8e-003	7.671e-003
3044	1537	1522	0.4964	7.6e-003	6.625e-003
3045	1538	1523	0.4981	9.3e-003	8.107e-003
3046	1538	1523	0.5002	1.14e-002	9.937e-003
3047	1539	1524	0.4973	8.5e-003	7.409e-003
3048	1539	1524	0.4945	5.7e-003	4.969e-003
3049	1540	1525	0.4961	7.3e-003	6.363e-003
3050	1540	1525	0.5016	1.28e-002	1.116e-002
3051	1541	1526	0.4972	8.4e-003	7.322e-003
3052	1541	1526	0.4972	8.4e-003	7.322e-003
3053	1542	1527	0.4961	7.3e-003	6.363e-003
3054	1542	1527	0.4966	7.8e-003	6.799e-003
3055	1543	1528	0.4964	7.6e-003	6.625e-003
3056	1543	1528	0.4975	8.7e-003	7.584e-003
3057	1544	1529	0.4961	7.3e-003	6.363e-003
3058	1544	1529	0.5013	1.25e-002	1.09e-002
3059	1545	1530	0.496	7.2e-003	6.276e-003
3060	1545	1530	0.4958	7.e-003	6.102e-003
3061	1545	1530	0.4972	8.4e-003	7.322e-003
3062	1546	1531	0.5013	1.25e-002	1.09e-002
3063	1547	1532	0.4963	7.5e-003	6.538e-003
3064	1547	1532	0.4964	7.6e-003	6.625e-003
3065	1548	1533	0.4961	7.3e-003	6.363e-003
3066	1548	1533	0.4936	4.8e-003	4.184e-003
3067	1549	1534	0.4973	8.5e-003	7.409e-003
3068	1549	1534	0.5	1.12e-002	9.763e-003
3069	1550	1535	0.5011	1.23e-002	1.072e-002
3070	1550	1535	0.4982	9.4e-003	8.194e-003
3071	1551	1536	0.4977	8.9e-003	7.758e-003
3072	1551	1536	0.5006	1.18e-002	1.029e-002
3073	1552	1537	0.4957	6.9e-003	6.015e-003
3074	1552	1537	0.4951	6.3e-003	5.492e-003
3075	1552	1537	0.5002	1.14e-002	9.937e-003
3076	1553	1538	0.4949	6.1e-003	5.317e-003
3077	1554	1539	0.4967	7.9e-003	6.886e-003
3078	1554	1539	0.5034	1.46e-002	1.273e-002
3079	1555	1540	0.5008	1.2e-002	1.046e-002
3080	1555	1540	0.4973	8.5e-003	7.409e-003
3081	1556	1541	0.496	7.2e-003	6.276e-003
3082	1556	1541	0.4985	9.7e-003	8.455e-003
3083	1557	1542	0.4981	9.3e-003	8.107e-003
3084	1557	1542	0.4978	9.e-003	7.845e-003
3085	1558	1543	0.5	1.12e-002	9.763e-003
3086	1558	1543	0.5004	1.16e-002	1.011e-002
3087	1559	1544	0.4973	8.5e-003	7.409e-003
3088	1559	1544	0.4963	7.5e-003	6.538e-003
3089	1559	1544	0.4983	9.5e-003	8.281e-003
3090	1560	1545	0.5018	1.3e-002	1.133e-002
3091	1561	1546	0.5024	1.36e-002	1.185e-002
3092	1561	1546	0.4937	4.9e-003	4.271e-003
3093	1562	1547	0.4918	3.e-003	2.615e-003
3094	1562	1547	0.4979	9.1e-003	7.932e-003
3095	1563	1548	0.4987	9.9e-003	8.63e-003
3096	1563	1548	0.4952	6.4e-003	5.579e-003

3097	1564	1549	0.4994	1.06e-002	9.24e-003
3098	1564	1549	0.4976	8.8e-003	7.671e-003
3099	1565	1550	0.4994	1.06e-002	9.24e-003
3100	1565	1550	0.4986	9.8e-003	8.543e-003
3101	1566	1551	0.499	1.02e-002	8.891e-003
3102	1566	1551	0.4943	5.5e-003	4.794e-003
3103	1566	1551	0.5001	1.13e-002	9.85e-003
3104	1567	1552	0.4949	6.1e-003	5.317e-003
3105	1568	1553	0.4994	1.06e-002	9.24e-003
3106	1568	1553	0.495	6.2e-003	5.404e-003
3107	1569	1554	0.4991	1.03e-002	8.978e-003
3108	1569	1554	0.5012	1.24e-002	1.081e-002
3109	1570	1555	0.4955	6.7e-003	5.84e-003
3110	1570	1555	0.4974	8.6e-003	7.497e-003
3111	1571	1556	0.4997	1.09e-002	9.501e-003
3112	1571	1556	0.499	1.02e-002	8.891e-003
3113	1572	1557	0.5028	1.4e-002	1.22e-002
3114	1572	1557	0.4975	8.7e-003	7.584e-003
3115	1573	1558	0.4936	4.8e-003	4.184e-003
3116	1573	1558	0.4984	9.6e-003	8.368e-003
3117	1573	1558	0.4973	8.5e-003	7.409e-003
3118	1574	1559	0.5003	1.15e-002	1.002e-002
3119	1575	1560	0.4945	5.7e-003	4.969e-003
3120	1575	1560	0.4995	1.07e-002	9.327e-003
3121	1576	1561	0.497	8.2e-003	7.148e-003
3122	1576	1561	0.4934	4.6e-003	4.01e-003
3123	1577	1562	0.5006	1.18e-002	1.029e-002
3124	1577	1562	0.4935	4.7e-003	4.097e-003
3125	1578	1563	0.5011	1.23e-002	1.072e-002
3126	1578	1563	0.4979	9.1e-003	7.932e-003
3127	1579	1564	0.4991	1.03e-002	8.978e-003
3128	1579	1564	0.4969	8.1e-003	7.061e-003
3129	1580	1565	0.4976	8.8e-003	7.671e-003
3130	1580	1565	0.4954	6.6e-003	5.753e-003
3131	1580	1565	0.4969	8.1e-003	7.061e-003
3132	1581	1566	0.4949	6.1e-003	5.317e-003
3133	1582	1567	0.4928	4.e-003	3.487e-003
3134	1582	1567	0.4994	1.06e-002	9.24e-003
3135	1583	1568	0.4966	7.8e-003	6.799e-003
3136	1583	1568	0.4942	5.4e-003	4.707e-003
3137	1584	1569	0.4972	8.4e-003	7.322e-003
3138	1584	1569	0.4942	5.4e-003	4.707e-003
3139	1585	1570	0.4956	6.8e-003	5.927e-003
3140	1585	1570	0.4958	7.e-003	6.102e-003
3141	1586	1571	0.496	7.2e-003	6.276e-003
3142	1586	1571	0.4958	7.e-003	6.102e-003
3143	1587	1572	0.4958	7.e-003	6.102e-003
3144	1587	1572	0.4965	7.7e-003	6.712e-003
3145	1587	1572	0.4973	8.5e-003	7.409e-003
3146	1588	1573	0.5009	1.21e-002	1.055e-002
3147	1589	1574	0.4934	4.6e-003	4.01e-003
3148	1589	1574	0.4951	6.3e-003	5.492e-003
3149	1590	1575	0.4975	8.7e-003	7.584e-003
3150	1590	1575	0.4975	8.7e-003	7.584e-003
3151	1591	1576	0.5006	1.18e-002	1.029e-002
3152	1591	1576	0.4968	8.e-003	6.974e-003
3153	1592	1577	0.4958	7.e-003	6.102e-003
3154	1592	1577	0.4976	8.8e-003	7.671e-003
3155	1593	1578	0.4973	8.5e-003	7.409e-003
3156	1593	1578	0.5003	1.15e-002	1.002e-002

3157	1594	1579	0.4985	9.7e-003	8.455e-003
3158	1594	1579	0.4994	1.06e-002	9.24e-003
3159	1594	1579	0.4954	6.6e-003	5.753e-003
3160	1595	1580	0.4967	7.9e-003	6.886e-003
3161	1596	1581	0.4987	9.9e-003	8.63e-003
3162	1596	1581	0.494	5.2e-003	4.533e-003
3163	1597	1582	0.4939	5.1e-003	4.446e-003
3164	1597	1582	0.4964	7.6e-003	6.625e-003
3165	1598	1583	0.4998	1.1e-002	9.589e-003
3166	1598	1583	0.495	6.2e-003	5.404e-003
3167	1599	1584	0.4979	9.1e-003	7.932e-003
3168	1599	1584	0.4978	9.e-003	7.845e-003
3169	1600	1585	0.4968	8.e-003	6.974e-003
3170	1600	1585	0.4939	5.1e-003	4.446e-003
3171	1601	1586	0.4975	8.7e-003	7.584e-003
3172	1601	1586	0.5003	1.15e-002	1.002e-002
3173	1602	1587	0.496	7.2e-003	6.276e-003
3174	1602	1587	0.4937	4.9e-003	4.271e-003
3175	1603	1588	0.4987	9.9e-003	8.63e-003
3176	1603	1588	0.4985	9.7e-003	8.455e-003
3177	1604	1589	0.4988	1.e-002	8.717e-003
3178	1604	1589	0.4918	3.e-003	2.615e-003
3179	1605	1590	0.4936	4.8e-003	4.184e-003
3180	1605	1590	0.4954	6.6e-003	5.753e-003
3181	1606	1591	0.4997	1.09e-002	9.501e-003
3182	1606	1591	0.4997	1.09e-002	9.501e-003
3183	1607	1592	0.4922	3.4e-003	2.964e-003
3184	1607	1592	0.5008	1.2e-002	1.046e-002
3185	1607	1592	0.4958	7.e-003	6.102e-003
3186	1608	1593	0.4949	6.1e-003	5.317e-003
3187	1609	1594	0.4985	9.7e-003	8.455e-003
3188	1609	1594	0.4931	4.3e-003	3.748e-003
3189	1610	1595	0.4964	7.6e-003	6.625e-003
3190	1610	1595	0.501	1.22e-002	1.063e-002
3191	1611	1596	0.4951	6.3e-003	5.492e-003
3192	1611	1596	0.4959	7.1e-003	6.189e-003
3193	1612	1597	0.5045	1.57e-002	1.369e-002
3194	1612	1597	0.4957	6.9e-003	6.015e-003
3195	1613	1598	0.5022	1.34e-002	1.168e-002
3196	1613	1598	0.4973	8.5e-003	7.409e-003
3197	1614	1599	0.4976	8.8e-003	7.671e-003
3198	1614	1599	0.4955	6.7e-003	5.84e-003
3199	1614	1599	0.496	7.2e-003	6.276e-003
3200	1615	1600	0.4924	3.6e-003	3.138e-003
3201	1616	1601	0.497	8.2e-003	7.148e-003
3202	1616	1601	0.4978	9.e-003	7.845e-003
3203	1617	1602	0.4993	1.05e-002	9.153e-003
3204	1617	1602	0.4979	9.1e-003	7.932e-003
3205	1618	1603	0.4953	6.5e-003	5.666e-003
3206	1618	1603	0.4993	1.05e-002	9.153e-003
3207	1619	1604	0.4981	9.3e-003	8.107e-003
3208	1619	1604	0.4954	6.6e-003	5.753e-003
3209	1620	1605	0.5	1.12e-002	9.763e-003
3210	1620	1605	0.4965	7.7e-003	6.712e-003
3211	1621	1606	0.497	8.2e-003	7.148e-003
3212	1621	1606	0.4985	9.7e-003	8.455e-003
3213	1621	1606	0.4962	7.4e-003	6.45e-003
3214	1622	1607	0.4986	9.8e-003	8.543e-003
3215	1623	1608	0.4955	6.7e-003	5.84e-003
3216	1623	1608	0.4958	7.e-003	6.102e-003

3217	1624	1609	0.4936	4.8e-003	4.184e-003
3218	1624	1609	0.4958	7.e-003	6.102e-003
3219	1625	1610	0.4988	1.e-002	8.717e-003
3220	1625	1610	0.4973	8.5e-003	7.409e-003
3221	1626	1611	0.504	1.52e-002	1.325e-002
3222	1626	1611	0.4978	9.e-003	7.845e-003
3223	1627	1612	0.4981	9.3e-003	8.107e-003
3224	1627	1612	0.4982	9.4e-003	8.194e-003
3225	1628	1613	0.4998	1.1e-002	9.589e-003
3226	1628	1613	0.4985	9.7e-003	8.455e-003
3227	1628	1613	0.497	8.2e-003	7.148e-003
3228	1629	1614	0.4937	4.9e-003	4.271e-003
3229	1630	1615	0.4988	1.e-002	8.717e-003
3230	1630	1615	0.4975	8.7e-003	7.584e-003
3231	1631	1616	0.4979	9.1e-003	7.932e-003
3232	1631	1616	0.4931	4.3e-003	3.748e-003
3233	1632	1617	0.4937	4.9e-003	4.271e-003
3234	1632	1617	0.5004	1.16e-002	1.011e-002
3235	1633	1618	0.4997	1.09e-002	9.501e-003
3236	1633	1618	0.5004	1.16e-002	1.011e-002
3237	1634	1619	0.496	7.2e-003	6.276e-003
3238	1634	1619	0.4981	9.3e-003	8.107e-003
3239	1635	1620	0.4949	6.1e-003	5.317e-003
3240	1635	1620	0.4934	4.6e-003	4.01e-003
3241	1635	1620	0.4958	7.e-003	6.102e-003
3242	1636	1621	0.4961	7.3e-003	6.363e-003
3243	1637	1622	0.496	7.2e-003	6.276e-003
3244	1637	1622	0.4961	7.3e-003	6.363e-003
3245	1638	1623	0.4982	9.4e-003	8.194e-003
3246	1638	1623	0.4974	8.6e-003	7.497e-003
3247	1639	1624	0.4951	6.3e-003	5.492e-003
3248	1639	1624	0.497	8.2e-003	7.148e-003
3249	1640	1625	0.5013	1.25e-002	1.09e-002
3250	1640	1625	0.4984	9.6e-003	8.368e-003
3251	1641	1626	0.4987	9.9e-003	8.63e-003
3252	1641	1626	0.4991	1.03e-002	8.978e-003
3253	1642	1627	0.4957	6.9e-003	6.015e-003
3254	1642	1627	0.4993	1.05e-002	9.153e-003
3255	1642	1627	0.4943	5.5e-003	4.794e-003
3256	1643	1628	0.4965	7.7e-003	6.712e-003
3257	1644	1629	0.4957	6.9e-003	6.015e-003
3258	1644	1629	0.4958	7.e-003	6.102e-003
3259	1645	1630	0.4994	1.06e-002	9.24e-003
3260	1645	1630	0.4979	9.1e-003	7.932e-003
3261	1646	1631	0.4964	7.6e-003	6.625e-003
3262	1646	1631	0.496	7.2e-003	6.276e-003
3263	1647	1632	0.4951	6.3e-003	5.492e-003
3264	1647	1632	0.4955	6.7e-003	5.84e-003
3265	1648	1633	0.4973	8.5e-003	7.409e-003
3266	1648	1633	0.4957	6.9e-003	6.015e-003
3267	1649	1634	0.4989	1.01e-002	8.804e-003
3268	1649	1634	0.4933	4.5e-003	3.923e-003
3269	1649	1634	0.4968	8.e-003	6.974e-003
3270	1650	1635	0.4915	2.7e-003	2.354e-003
3271	1651	1636	0.4963	7.5e-003	6.538e-003
3272	1651	1636	0.4969	8.1e-003	7.061e-003
3273	1652	1637	0.5002	1.14e-002	9.937e-003
3274	1652	1637	0.4946	5.8e-003	5.056e-003
3275	1653	1638	0.4931	4.3e-003	3.748e-003
3276	1653	1638	0.4972	8.4e-003	7.322e-003

3277	1654	1639	0.4973	8.5e-003	7.409e-003
3278	1654	1639	0.4952	6.4e-003	5.579e-003
3279	1655	1640	0.4975	8.7e-003	7.584e-003
3280	1655	1640	0.4967	7.9e-003	6.886e-003
3281	1656	1641	0.5019	1.31e-002	1.142e-002
3282	1656	1641	0.496	7.2e-003	6.276e-003
3283	1656	1641	0.4988	1.e-002	8.717e-003
3284	1657	1642	0.4967	7.9e-003	6.886e-003
3285	1658	1643	0.4969	8.1e-003	7.061e-003
3286	1658	1643	0.4925	3.7e-003	3.225e-003
3287	1659	1644	0.4961	7.3e-003	6.363e-003
3288	1659	1644	0.4969	8.1e-003	7.061e-003
3289	1660	1645	0.4955	6.7e-003	5.84e-003
3290	1660	1645	0.4952	6.4e-003	5.579e-003
3291	1661	1646	0.4952	6.4e-003	5.579e-003
3292	1661	1646	0.4967	7.9e-003	6.886e-003
3293	1662	1647	0.4978	9.e-003	7.845e-003
3294	1662	1647	0.4936	4.8e-003	4.184e-003
3295	1663	1648	0.4946	5.8e-003	5.056e-003
3296	1663	1648	0.4973	8.5e-003	7.409e-003
3297	1664	1649	0.4961	7.3e-003	6.363e-003
3298	1664	1649	0.5026	1.38e-002	1.203e-002
3299	1665	1650	0.5002	1.14e-002	9.937e-003
3300	1665	1650	0.4969	8.1e-003	7.061e-003
3301	1666	1651	0.4951	6.3e-003	5.492e-003
3302	1666	1651	0.4967	7.9e-003	6.886e-003
3303	1667	1652	0.494	5.2e-003	4.533e-003
3304	1667	1652	0.4931	4.3e-003	3.748e-003
3305	1668	1653	0.4949	6.1e-003	5.317e-003
3306	1668	1653	0.4982	9.4e-003	8.194e-003
3307	1669	1654	0.4952	6.4e-003	5.579e-003
3308	1669	1654	0.4912	2.4e-003	2.092e-003
3309	1669	1654	0.4984	9.6e-003	8.368e-003
3310	1670	1655	0.4949	6.1e-003	5.317e-003
3311	1671	1656	0.494	5.2e-003	4.533e-003
3312	1671	1656	0.4983	9.5e-003	8.281e-003
3313	1672	1657	0.4975	8.7e-003	7.584e-003
3314	1672	1657	0.4973	8.5e-003	7.409e-003
3315	1673	1658	0.4963	7.5e-003	6.538e-003
3316	1673	1658	0.4948	6.e-003	5.23e-003
3317	1674	1659	0.498	9.2e-003	8.02e-003
3318	1674	1659	0.4976	8.8e-003	7.671e-003
3319	1675	1660	0.4972	8.4e-003	7.322e-003
3320	1675	1660	0.4928	4.e-003	3.487e-003
3321	1676	1661	0.4934	4.6e-003	4.01e-003
3322	1676	1661	0.4969	8.1e-003	7.061e-003
3323	1676	1661	0.4952	6.4e-003	5.579e-003
3324	1677	1662	0.4937	4.9e-003	4.271e-003
3325	1678	1663	0.4924	3.6e-003	3.138e-003
3326	1678	1663	0.4991	1.03e-002	8.978e-003
3327	1679	1664	0.4961	7.3e-003	6.363e-003
3328	1679	1664	0.4966	7.8e-003	6.799e-003
3329	1680	1665	0.4997	1.09e-002	9.501e-003
3330	1680	1665	0.4961	7.3e-003	6.363e-003
3331	1681	1666	0.4991	1.03e-002	8.978e-003
3332	1681	1666	0.4997	1.09e-002	9.501e-003
3333	1682	1667	0.4955	6.7e-003	5.84e-003
3334	1682	1667	0.4936	4.8e-003	4.184e-003
3335	1683	1668	0.4987	9.9e-003	8.63e-003
3336	1683	1668	0.4994	1.06e-002	9.24e-003

3337	1683	1668	0.4976	8.8e-003	7.671e-003
3338	1684	1669	0.4969	8.1e-003	7.061e-003
3339	1685	1670	0.4958	7.e-003	6.102e-003
3340	1685	1670	0.494	5.2e-003	4.533e-003
3341	1686	1671	0.4979	9.1e-003	7.932e-003
3342	1686	1671	0.4958	7.e-003	6.102e-003
3343	1687	1672	0.4958	7.e-003	6.102e-003
3344	1687	1672	0.4954	6.6e-003	5.753e-003
3345	1688	1673	0.4933	4.5e-003	3.923e-003
3346	1688	1673	0.4933	4.5e-003	3.923e-003
3347	1689	1674	0.4985	9.7e-003	8.455e-003
3348	1689	1674	0.5006	1.18e-002	1.029e-002
3349	1690	1675	0.4957	6.9e-003	6.015e-003
3350	1690	1675	0.4988	1.e-002	8.717e-003
3351	1690	1675	0.4957	6.9e-003	6.015e-003
3352	1691	1676	0.4994	1.06e-002	9.24e-003
3353	1692	1677	0.4969	8.1e-003	7.061e-003
3354	1692	1677	0.4967	7.9e-003	6.886e-003
3355	1693	1678	0.5001	1.13e-002	9.85e-003
3356	1693	1678	0.4951	6.3e-003	5.492e-003
3357	1694	1679	0.4997	1.09e-002	9.501e-003
3358	1694	1679	0.496	7.2e-003	6.276e-003
3359	1695	1680	0.4945	5.7e-003	4.969e-003
3360	1695	1680	0.4942	5.4e-003	4.707e-003
3361	1696	1681	0.4969	8.1e-003	7.061e-003
3362	1696	1681	0.4948	6.e-003	5.23e-003
3363	1697	1682	0.4925	3.7e-003	3.225e-003
3364	1697	1682	0.4954	6.6e-003	5.753e-003
3365	1697	1682	0.4984	9.6e-003	8.368e-003
3366	1698	1683	0.496	7.2e-003	6.276e-003
3367	1699	1684	0.4993	1.05e-002	9.153e-003
3368	1699	1684	0.4948	6.e-003	5.23e-003
3369	1700	1685	0.4954	6.6e-003	5.753e-003
3370	1700	1685	0.4961	7.3e-003	6.363e-003
3371	1701	1686	0.4967	7.9e-003	6.886e-003
3372	1701	1686	0.5	1.12e-002	9.763e-003
3373	1702	1687	0.5026	1.38e-002	1.203e-002
3374	1702	1687	0.4982	9.4e-003	8.194e-003
3375	1703	1688	0.4945	5.7e-003	4.969e-003
3376	1703	1688	0.4981	9.3e-003	8.107e-003
3377	1704	1689	0.5002	1.14e-002	9.937e-003
3378	1704	1689	0.5005	1.17e-002	1.02e-002
3379	1704	1689	0.4919	3.1e-003	2.702e-003
3380	1705	1690	0.4955	6.7e-003	5.84e-003
3381	1706	1691	0.4961	7.3e-003	6.363e-003
3382	1706	1691	0.4971	8.3e-003	7.235e-003
3383	1707	1692	0.4966	7.8e-003	6.799e-003
3384	1707	1692	0.4974	8.6e-003	7.497e-003
3385	1708	1693	0.495	6.2e-003	5.404e-003
3386	1708	1693	0.496	7.2e-003	6.276e-003
3387	1709	1694	0.499	1.02e-002	8.891e-003
3388	1709	1694	0.4913	2.5e-003	2.179e-003
3389	1710	1695	0.4989	1.01e-002	8.804e-003
3390	1710	1695	0.493	4.2e-003	3.661e-003
3391	1711	1696	0.4967	7.9e-003	6.886e-003
3392	1711	1696	0.496	7.2e-003	6.276e-003
3393	1711	1696	0.4991	1.03e-002	8.978e-003
3394	1712	1697	0.4913	2.5e-003	2.179e-003
3395	1713	1698	0.4928	4.e-003	3.487e-003
3396	1713	1698	0.4952	6.4e-003	5.579e-003

3397	1714	1699	0.493	4.2e-003	3.661e-003
3398	1714	1699	0.4954	6.6e-003	5.753e-003
3399	1715	1700	0.494	5.2e-003	4.533e-003
3400	1715	1700	0.4958	7.e-003	6.102e-003
3401	1716	1701	0.4966	7.8e-003	6.799e-003
3402	1716	1701	0.4934	4.6e-003	4.01e-003
3403	1717	1702	0.4955	6.7e-003	5.84e-003
3404	1717	1702	0.4939	5.1e-003	4.446e-003
3405	1718	1703	0.4954	6.6e-003	5.753e-003
3406	1718	1703	0.4958	7.e-003	6.102e-003
3407	1719	1704	0.4976	8.8e-003	7.671e-003
3408	1719	1704	0.496	7.2e-003	6.276e-003
3409	1720	1705	0.4966	7.8e-003	6.799e-003
3410	1720	1705	0.4967	7.9e-003	6.886e-003
3411	1721	1706	0.4943	5.5e-003	4.794e-003
3412	1721	1706	0.4933	4.5e-003	3.923e-003
3413	1722	1707	0.4961	7.3e-003	6.363e-003
3414	1722	1707	0.4928	4.e-003	3.487e-003
3415	1723	1708	0.4949	6.1e-003	5.317e-003
3416	1723	1708	0.4942	5.4e-003	4.707e-003
3417	1724	1709	0.4951	6.3e-003	5.492e-003
3418	1724	1709	0.4937	4.9e-003	4.271e-003
3419	1725	1710	0.4984	9.6e-003	8.368e-003
3420	1725	1710	0.4957	6.9e-003	6.015e-003
3421	1726	1711	0.4982	9.4e-003	8.194e-003
3422	1726	1711	0.4937	4.9e-003	4.271e-003
3423	1727	1712	0.4943	5.5e-003	4.794e-003
3424	1727	1712	0.4961	7.3e-003	6.363e-003
3425	1728	1713	0.4989	1.01e-002	8.804e-003
3426	1728	1713	0.4988	1.e-002	8.717e-003
3427	1729	1714	0.494	5.2e-003	4.533e-003
3428	1729	1714	0.4967	7.9e-003	6.886e-003
3429	1730	1715	0.5009	1.21e-002	1.055e-002
3430	1730	1715	0.4955	6.7e-003	5.84e-003
3431	1731	1716	0.4982	9.4e-003	8.194e-003
3432	1731	1716	0.498	9.2e-003	8.02e-003
3433	1731	1716	0.4961	7.3e-003	6.363e-003
3434	1732	1717	0.4949	6.1e-003	5.317e-003
3435	1733	1718	0.4892	4.e-004	3.487e-004
3436	1733	1718	0.4972	8.4e-003	7.322e-003
3437	1734	1719	0.4988	1.e-002	8.717e-003
3438	1734	1719	0.4934	4.6e-003	4.01e-003
3439	1735	1720	0.496	7.2e-003	6.276e-003
3440	1735	1720	0.494	5.2e-003	4.533e-003
3441	1736	1721	0.4999	1.11e-002	9.676e-003
3442	1736	1721	0.4945	5.7e-003	4.969e-003
3443	1737	1722	0.4934	4.6e-003	4.01e-003
3444	1737	1722	0.4958	7.e-003	6.102e-003
3445	1738	1723	0.4975	8.7e-003	7.584e-003
3446	1738	1723	0.4985	9.7e-003	8.455e-003
3447	1738	1723	0.494	5.2e-003	4.533e-003
3448	1739	1724	0.4939	5.1e-003	4.446e-003
3449	1740	1725	0.4948	6.e-003	5.23e-003
3450	1740	1725	0.4982	9.4e-003	8.194e-003
3451	1741	1726	0.4946	5.8e-003	5.056e-003
3452	1741	1726	0.4979	9.1e-003	7.932e-003
3453	1742	1727	0.497	8.2e-003	7.148e-003
3454	1742	1727	0.4946	5.8e-003	5.056e-003
3455	1743	1728	0.4912	2.4e-003	2.092e-003
3456	1743	1728	0.4961	7.3e-003	6.363e-003

3457	1744	1729	0.4906	1.8e-003	1.569e-003
3458	1744	1729	0.4933	4.5e-003	3.923e-003
3459	1745	1730	0.4958	7.e-003	6.102e-003
3460	1745	1730	0.4943	5.5e-003	4.794e-003
3461	1745	1730	0.4939	5.1e-003	4.446e-003
3462	1746	1731	0.4964	7.6e-003	6.625e-003
3463	1747	1732	0.4904	1.6e-003	1.395e-003
3464	1747	1732	0.498	9.2e-003	8.02e-003
3465	1748	1733	0.493	4.2e-003	3.661e-003
3466	1748	1733	0.4963	7.5e-003	6.538e-003
3467	1749	1734	0.4924	3.6e-003	3.138e-003
3468	1749	1734	0.4935	4.7e-003	4.097e-003
3469	1750	1735	0.4991	1.03e-002	8.978e-003
3470	1750	1735	0.4952	6.4e-003	5.579e-003
3471	1751	1736	0.4946	5.8e-003	5.056e-003
3472	1751	1736	0.4913	2.5e-003	2.179e-003
3473	1752	1737	0.4961	7.3e-003	6.363e-003
3474	1752	1737	0.4984	9.6e-003	8.368e-003
3475	1752	1737	0.4969	8.1e-003	7.061e-003
3476	1753	1738	0.494	5.2e-003	4.533e-003
3477	1754	1739	0.4961	7.3e-003	6.363e-003
3478	1754	1739	0.4977	8.9e-003	7.758e-003
3479	1755	1740	0.4972	8.4e-003	7.322e-003
3480	1755	1740	0.4924	3.6e-003	3.138e-003
3481	1756	1741	0.5002	1.14e-002	9.937e-003
3482	1756	1741	0.4988	1.e-002	8.717e-003
3483	1757	1742	0.4966	7.8e-003	6.799e-003
3484	1757	1742	0.4978	9.e-003	7.845e-003
3485	1758	1743	0.4978	9.e-003	7.845e-003
3486	1758	1743	0.4954	6.6e-003	5.753e-003
3487	1759	1744	0.4951	6.3e-003	5.492e-003
3488	1759	1744	0.495	6.2e-003	5.404e-003
3489	1759	1744	0.4934	4.6e-003	4.01e-003
3490	1760	1745	0.4967	7.9e-003	6.886e-003
3491	1761	1746	0.4933	4.5e-003	3.923e-003
3492	1761	1746	0.4975	8.7e-003	7.584e-003
3493	1762	1747	0.503	1.42e-002	1.238e-002
3494	1762	1747	0.4957	6.9e-003	6.015e-003
3495	1763	1748	0.4954	6.6e-003	5.753e-003
3496	1763	1748	0.4961	7.3e-003	6.363e-003
3497	1764	1749	0.499	1.02e-002	8.891e-003
3498	1764	1749	0.5003	1.15e-002	1.002e-002
3499	1765	1750	0.4964	7.6e-003	6.625e-003
3500	1765	1750	0.4946	5.8e-003	5.056e-003
3501	1766	1751	0.4989	1.01e-002	8.804e-003
3502	1766	1751	0.4955	6.7e-003	5.84e-003
3503	1766	1751	0.4933	4.5e-003	3.923e-003
3504	1767	1752	0.4933	4.5e-003	3.923e-003
3505	1768	1753	0.4984	9.6e-003	8.368e-003
3506	1768	1753	0.4955	6.7e-003	5.84e-003
3507	1769	1754	0.4995	1.07e-002	9.327e-003
3508	1769	1754	0.4993	1.05e-002	9.153e-003
3509	1770	1755	0.5001	1.13e-002	9.85e-003
3510	1770	1755	0.4931	4.3e-003	3.748e-003
3511	1771	1756	0.4985	9.7e-003	8.455e-003
3512	1771	1756	0.4994	1.06e-002	9.24e-003
3513	1772	1757	0.496	7.2e-003	6.276e-003
3514	1772	1757	0.4958	7.e-003	6.102e-003
3515	1773	1758	0.4931	4.3e-003	3.748e-003
3516	1773	1758	0.5003	1.15e-002	1.002e-002

3517	1773	1758	0.4997	1.09e-002	9.501e-003
3518	1774	1759	0.4967	7.9e-003	6.886e-003
3519	1775	1760	0.499	1.02e-002	8.891e-003
3520	1775	1760	0.4999	1.11e-002	9.676e-003
3521	1776	1761	0.5017	1.29e-002	1.124e-002
3522	1776	1761	0.497	8.2e-003	7.148e-003
3523	1777	1762	0.4975	8.7e-003	7.584e-003
3524	1777	1762	0.4977	8.9e-003	7.758e-003
3525	1778	1763	0.4991	1.03e-002	8.978e-003
3526	1778	1763	0.4984	9.6e-003	8.368e-003
3527	1779	1764	0.4954	6.6e-003	5.753e-003
3528	1779	1764	0.494	5.2e-003	4.533e-003
3529	1780	1765	0.4964	7.6e-003	6.625e-003
3530	1780	1765	0.4991	1.03e-002	8.978e-003
3531	1781	1766	0.4976	8.8e-003	7.671e-003
3532	1781	1766	0.4982	9.4e-003	8.194e-003
3533	1782	1767	0.4973	8.5e-003	7.409e-003
3534	1782	1767	0.4962	7.4e-003	6.45e-003
3535	1783	1768	0.4979	9.1e-003	7.932e-003
3536	1783	1768	0.4961	7.3e-003	6.363e-003
3537	1784	1769	0.4939	5.1e-003	4.446e-003
3538	1784	1769	0.4945	5.7e-003	4.969e-003
3539	1785	1770	0.5033	1.45e-002	1.264e-002
3540	1785	1770	0.4954	6.6e-003	5.753e-003
3541	1786	1771	0.4963	7.5e-003	6.538e-003
3542	1786	1771	0.4946	5.8e-003	5.056e-003
3543	1787	1772	0.4987	9.9e-003	8.63e-003
3544	1787	1772	0.4985	9.7e-003	8.455e-003
3545	1788	1773	0.4979	9.1e-003	7.932e-003
3546	1788	1773	0.499	1.02e-002	8.891e-003
3547	1789	1774	0.4972	8.4e-003	7.322e-003
3548	1789	1774	0.4916	2.8e-003	2.441e-003
3549	1790	1775	0.4946	5.8e-003	5.056e-003
3550	1790	1775	0.4964	7.6e-003	6.625e-003
3551	1791	1776	0.494	5.2e-003	4.533e-003
3552	1791	1776	0.4964	7.6e-003	6.625e-003
3553	1792	1777	0.495	6.2e-003	5.404e-003
3554	1792	1777	0.4966	7.8e-003	6.799e-003
3555	1793	1778	0.4951	6.3e-003	5.492e-003
3556	1793	1778	0.4946	5.8e-003	5.056e-003
3557	1793	1778	0.4955	6.7e-003	5.84e-003
3558	1794	1779	0.4942	5.4e-003	4.707e-003
3559	1795	1780	0.4933	4.5e-003	3.923e-003
3560	1795	1780	0.4959	7.1e-003	6.189e-003
3561	1796	1781	0.4969	8.1e-003	7.061e-003
3562	1796	1781	0.4976	8.8e-003	7.671e-003
3563	1797	1782	0.4945	5.7e-003	4.969e-003
3564	1797	1782	0.4957	6.9e-003	6.015e-003
3565	1798	1783	0.4976	8.8e-003	7.671e-003
3566	1798	1783	0.4958	7.e-003	6.102e-003
3567	1799	1784	0.4972	8.4e-003	7.322e-003
3568	1799	1784	0.4976	8.8e-003	7.671e-003
3569	1800	1785	0.4958	7.e-003	6.102e-003
3570	1800	1785	0.4971	8.3e-003	7.235e-003
3571	1800	1785	0.4925	3.7e-003	3.225e-003
3572	1801	1786	0.4967	7.9e-003	6.886e-003
3573	1802	1787	0.4953	6.5e-003	5.666e-003
3574	1802	1787	0.4954	6.6e-003	5.753e-003
3575	1803	1788	0.4954	6.6e-003	5.753e-003
3576	1803	1788	0.4949	6.1e-003	5.317e-003

3577	1804	1789	0.4975	8.7e-003	7.584e-003
3578	1804	1789	0.4948	6.e-003	5.23e-003
3579	1805	1790	0.494	5.2e-003	4.533e-003
3580	1805	1790	0.4967	7.9e-003	6.886e-003
3581	1806	1791	0.4967	7.9e-003	6.886e-003
3582	1806	1791	0.4973	8.5e-003	7.409e-003
3583	1807	1792	0.4963	7.5e-003	6.538e-003
3584	1807	1792	0.4961	7.3e-003	6.363e-003
3585	1807	1792	0.4939	5.1e-003	4.446e-003
3586	1808	1793	0.4974	8.6e-003	7.497e-003
3587	1809	1794	0.4939	5.1e-003	4.446e-003
3588	1809	1794	0.4958	7.e-003	6.102e-003
3589	1810	1795	0.5009	1.21e-002	1.055e-002
3590	1810	1795	0.5004	1.16e-002	1.011e-002
3591	1811	1796	0.497	8.2e-003	7.148e-003
3592	1811	1796	0.4952	6.4e-003	5.579e-003
3593	1812	1797	0.4943	5.5e-003	4.794e-003
3594	1812	1797	0.4982	9.4e-003	8.194e-003
3595	1813	1798	0.4957	6.9e-003	6.015e-003
3596	1813	1798	0.495	6.2e-003	5.404e-003
3597	1814	1799	0.4966	7.8e-003	6.799e-003
3598	1814	1799	0.4977	8.9e-003	7.758e-003
3599	1814	1799	0.4915	2.7e-003	2.354e-003
3600	1815	1800	0.5003	1.15e-002	1.002e-002
3601	1816	1801	0.4928	4.e-003	3.487e-003
3602	1816	1801	0.4957	6.9e-003	6.015e-003
3603	1817	1802	0.4969	8.1e-003	7.061e-003
3604	1817	1802	0.4981	9.3e-003	8.107e-003
3605	1818	1803	0.4999	1.11e-002	9.676e-003
3606	1818	1803	0.4934	4.6e-003	4.01e-003
3607	1819	1804	0.4948	6.e-003	5.23e-003
3608	1819	1804	0.4966	7.8e-003	6.799e-003
3609	1820	1805	0.4949	6.1e-003	5.317e-003
3610	1820	1805	0.4956	6.8e-003	5.927e-003
3611	1821	1806	0.4967	7.9e-003	6.886e-003
3612	1821	1806	0.4954	6.6e-003	5.753e-003
3613	1821	1806	0.4925	3.7e-003	3.225e-003
3614	1822	1807	0.5003	1.15e-002	1.002e-002
3615	1823	1808	0.4939	5.1e-003	4.446e-003
3616	1823	1808	0.4949	6.1e-003	5.317e-003
3617	1824	1809	0.4955	6.7e-003	5.84e-003
3618	1824	1809	0.4937	4.9e-003	4.271e-003
3619	1825	1810	0.4955	6.7e-003	5.84e-003
3620	1825	1810	0.4958	7.e-003	6.102e-003
3621	1826	1811	0.5008	1.2e-002	1.046e-002
3622	1826	1811	0.4934	4.6e-003	4.01e-003
3623	1827	1812	0.4951	6.3e-003	5.492e-003
3624	1827	1812	0.4913	2.5e-003	2.179e-003
3625	1828	1813	0.4969	8.1e-003	7.061e-003
3626	1828	1813	0.4957	6.9e-003	6.015e-003
3627	1828	1813	0.496	7.2e-003	6.276e-003
3628	1829	1814	0.4931	4.3e-003	3.748e-003
3629	1830	1815	0.4933	4.5e-003	3.923e-003
3630	1830	1815	0.4956	6.8e-003	5.927e-003
3631	1831	1816	0.4921	3.3e-003	2.877e-003
3632	1831	1816	0.4937	4.9e-003	4.271e-003
3633	1832	1817	0.4942	5.4e-003	4.707e-003
3634	1832	1817	0.496	7.2e-003	6.276e-003
3635	1833	1818	0.4996	1.08e-002	9.414e-003
3636	1833	1818	0.4936	4.8e-003	4.184e-003

3637	1834	1819	0.4936	4.8e-003	4.184e-003
3638	1834	1819	0.4961	7.3e-003	6.363e-003
3639	1835	1820	0.4937	4.9e-003	4.271e-003
3640	1835	1820	0.4933	4.5e-003	3.923e-003
3641	1835	1820	0.494	5.2e-003	4.533e-003
3642	1836	1821	0.4937	4.9e-003	4.271e-003
3643	1837	1822	0.4973	8.5e-003	7.409e-003
3644	1837	1822	0.4921	3.3e-003	2.877e-003
3645	1838	1823	0.4977	8.9e-003	7.758e-003
3646	1838	1823	0.4967	7.9e-003	6.886e-003
3647	1839	1824	0.4945	5.7e-003	4.969e-003
3648	1839	1824	0.4937	4.9e-003	4.271e-003
3649	1840	1825	0.4946	5.8e-003	5.056e-003
3650	1840	1825	0.4934	4.6e-003	4.01e-003
3651	1841	1826	0.4912	2.4e-003	2.092e-003
3652	1841	1826	0.4946	5.8e-003	5.056e-003
3653	1842	1827	0.4975	8.7e-003	7.584e-003
3654	1842	1827	0.494	5.2e-003	4.533e-003
3655	1843	1828	0.4975	8.7e-003	7.584e-003
3656	1843	1828	0.4928	4.e-003	3.487e-003
3657	1844	1829	0.4964	7.6e-003	6.625e-003
3658	1844	1829	0.4928	4.e-003	3.487e-003
3659	1845	1830	0.4937	4.9e-003	4.271e-003
3660	1845	1830	0.4932	4.4e-003	3.835e-003
3661	1846	1831	0.4966	7.8e-003	6.799e-003
3662	1846	1831	0.4973	8.5e-003	7.409e-003
3663	1847	1832	0.4925	3.7e-003	3.225e-003
3664	1847	1832	0.4933	4.5e-003	3.923e-003
3665	1848	1833	0.4951	6.3e-003	5.492e-003
3666	1848	1833	0.4949	6.1e-003	5.317e-003
3667	1849	1834	0.4979	9.1e-003	7.932e-003
3668	1849	1834	0.5031	1.43e-002	1.247e-002
3669	1850	1835	0.4961	7.3e-003	6.363e-003
3670	1850	1835	0.4943	5.5e-003	4.794e-003
3671	1851	1836	0.4978	9.e-003	7.845e-003
3672	1851	1836	0.4921	3.3e-003	2.877e-003
3673	1852	1837	0.4976	8.8e-003	7.671e-003
3674	1852	1837	0.4921	3.3e-003	2.877e-003
3675	1853	1838	0.4933	4.5e-003	3.923e-003
3676	1853	1838	0.4888	0.	0.
3677	1854	1839	0.4901	1.3e-003	1.133e-003
3678	1854	1839	0.4904	1.6e-003	1.395e-003
3679	1855	1840	0.4945	5.7e-003	4.969e-003
3680	1855	1840	0.4893	5.e-004	4.358e-004
3681	1855	1840	0.4943	5.5e-003	4.794e-003
3682	1856	1841	0.4948	6.e-003	5.23e-003
3683	1857	1842	0.4963	7.5e-003	6.538e-003
3684	1857	1842	0.4922	3.4e-003	2.964e-003
3685	1858	1843	0.4972	8.4e-003	7.322e-003
3686	1858	1843	0.4922	3.4e-003	2.964e-003
3687	1859	1844	0.4955	6.7e-003	5.84e-003
3688	1859	1844	0.4894	6.e-004	5.23e-004
3689	1860	1845	0.4957	6.9e-003	6.015e-003
3690	1860	1845	0.4907	1.9e-003	1.656e-003

MW-17 Slug Test

Site Name:	378 Truck Stop
Location:	Edgefield, SC
Test Date:	10/18/10
Client:	Wilkerson Fuel Company, Inc.
Project Number:	14-214210
Import File:	F:\Projects\14-214210 378 Truck Stop\Slug Test Data\MW-17 slug test data.txt

Well Label:	MW-17
Aquifer Thickness:	11.26 feet
Screen Length:	15. feet
Casing Radius:	1. Inches
Effective Radius:	3.125 Inches
Static Water Level:	0.3531 feet
Water Table to Screen Bottom:	11.26 feet
Anisotropy Ratio:	1.
Time Adjustment:	20. Seconds

Test starts with trial 0
There are 2959 time and drawdown measurements
Maximum head is 2.003 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	20.	0.	2.356	2.003	1.
2	20.5	0.5	1.214	0.8609	0.4298
3	21.	1.	2.096	1.743	0.8702
4	21.5	1.5	2.187	1.834	0.9156
5	22.	2.	1.765	1.412	0.7049
6	22.5	2.5	1.641	1.288	0.643
7	23.	3.	1.675	1.322	0.66
8	23.5	3.5	1.565	1.212	0.6051
9	24.	4.	1.426	1.073	0.5357
10	24.5	4.5	1.389	1.036	0.5172
11	25.	5.	1.296	0.9429	0.4708
12	25.5	5.5	1.213	0.8599	0.4293
13	26.	6.	1.145	0.7919	0.3954
14	26.5	6.5	1.087	0.7339	0.3664
15	27.	7.	1.026	0.6729	0.336
16	27.5	7.5	0.9777	0.6246	0.3118
17	28.	8.	0.9364	0.5833	0.2912
18	28.5	8.5	0.907	0.5539	0.2765
19	29.	9.	0.8706	0.5175	0.2584
20	29.5	9.5	0.8476	0.4945	0.2469
21	30.	10.	0.8248	0.4717	0.2355
22	30.5	10.5	0.808	0.4549	0.2271
23	31.	11.	0.7937	0.4406	0.22
24	31.5	11.5	0.7822	0.4291	0.2142
25	32.	12.	0.7724	0.4193	0.2093
26	32.5	12.5	0.7596	0.4065	0.203
27	33.	13.	0.7544	0.4013	0.2004
28	33.5	13.5	0.7434	0.3903	0.1949
29	34.	14.	0.741	0.3879	0.1937
30	34.5	14.5	0.7346	0.3815	0.1905
31	35.	15.	0.7296	0.3765	0.188
32	35.5	15.5	0.7267	0.3736	0.1865
33	36.	16.	0.7179	0.3648	0.1821
34	36.5	16.5	0.7153	0.3622	0.1808
35	37.	17.	0.7123	0.3592	0.1793
36	37.5	17.5	0.7051	0.352	0.1757

37	38.	18.	0.7042	0.3511	0.1753
38	38.5	18.5	0.6991	0.346	0.1727
39	39.	19.	0.6978	0.3447	0.1721
40	39.5	19.5	0.6943	0.3412	0.1704
41	40.	20.	0.6904	0.3373	0.1684
42	40.5	20.5	0.6929	0.3398	0.1697
43	41.	21.	0.6841	0.331	0.1653
44	41.5	21.5	0.6803	0.3272	0.1634
45	42.	22.	0.6796	0.3265	0.163
46	42.5	22.5	0.6799	0.3268	0.1632
47	43.	23.	0.6758	0.3227	0.1611
48	43.5	23.5	0.6736	0.3205	0.16
49	44.	24.	0.6745	0.3214	0.1605
50	44.5	24.5	0.6704	0.3173	0.1584
51	45.	25.	0.6766	0.3235	0.1615
52	45.5	25.5	0.6679	0.3148	0.1572
53	46.	26.	0.6655	0.3124	0.156
54	46.5	26.5	0.6649	0.3118	0.1557
55	47.	27.	0.6613	0.3082	0.1539
56	47.5	27.5	0.662	0.3089	0.1542
57	48.	28.	0.6601	0.307	0.1533
58	48.5	28.5	0.6601	0.307	0.1533
59	49.	29.	0.6545	0.3014	0.1505
60	49.5	29.5	0.6575	0.3044	0.152
61	50.	30.	0.6527	0.2996	0.1496
62	50.5	30.5	0.653	0.2999	0.1497
63	51.	31.	0.6556	0.3025	0.151
64	51.5	31.5	0.6506	0.2975	0.1485
65	52.	32.	0.6482	0.2951	0.1473
66	52.5	32.5	0.6483	0.2952	0.1474
67	53.	33.	0.6476	0.2945	0.147
68	53.5	33.5	0.6464	0.2933	0.1464
69	54.	34.	0.6493	0.2962	0.1479
70	54.5	34.5	0.6458	0.2927	0.1461
71	55.	35.	0.6432	0.2901	0.1448
72	55.5	35.5	0.6416	0.2885	0.144
73	56.	36.	0.6389	0.2858	0.1427
74	56.5	36.5	0.6399	0.2868	0.1432
75	57.	37.	0.6408	0.2877	0.1436
76	57.5	37.5	0.6414	0.2883	0.1439
77	58.	38.	0.6414	0.2883	0.1439
78	58.5	38.5	0.6366	0.2835	0.1415
79	59.	39.	0.639	0.2859	0.1427
80	59.5	39.5	0.6389	0.2858	0.1427
81	60.	40.	0.636	0.2829	0.1412
82	60.5	40.5	0.6356	0.2825	0.141
83	61.	41.	0.6345	0.2814	0.1405
84	61.5	41.5	0.6309	0.2778	0.1387
85	62.	42.	0.6312	0.2781	0.1388
86	62.5	42.5	0.6327	0.2796	0.1396
87	63.	43.	0.6341	0.281	0.1403
88	63.5	43.5	0.6306	0.2775	0.1385
89	64.	44.	0.6309	0.2778	0.1387
90	64.5	44.5	0.6266	0.2735	0.1366
91	65.	45.	0.629	0.2759	0.1378
92	65.5	45.5	0.6272	0.2741	0.1369
93	66.	46.	0.6266	0.2735	0.1366
94	66.5	46.5	0.6213	0.2682	0.1339
95	67.	47.	0.6287	0.2756	0.1376
96	67.5	47.5	0.6237	0.2706	0.1351

97	68.	48.	0.6179	0.2648	0.1322
98	68.5	48.5	0.6246	0.2715	0.1356
99	69.	49.	0.6228	0.2697	0.1347
100	69.5	49.5	0.6221	0.269	0.1343
101	70.	50.	0.6216	0.2685	0.1341
102	70.5	50.5	0.6192	0.2661	0.1329
103	71.	51.	0.6213	0.2682	0.1339
104	71.5	51.5	0.6198	0.2667	0.1332
105	72.	52.	0.6175	0.2644	0.132
106	72.5	52.5	0.618	0.2649	0.1323
107	73.	53.	0.6164	0.2633	0.1315
108	73.5	53.5	0.6156	0.2625	0.1311
109	74.	54.	0.6174	0.2643	0.132
110	74.5	54.5	0.6195	0.2664	0.133
111	75.	55.	0.6166	0.2635	0.1316
112	75.5	55.5	0.6137	0.2606	0.1301
113	76.	56.	0.618	0.2649	0.1323
114	76.5	56.5	0.6138	0.2607	0.1302
115	77.	57.	0.6134	0.2603	0.13
116	77.5	57.5	0.6104	0.2573	0.1285
117	78.	58.	0.6096	0.2565	0.1281
118	78.5	58.5	0.6143	0.2612	0.1304
119	79.	59.	0.6134	0.2603	0.13
120	79.5	59.5	0.6123	0.2592	0.1294
121	80.	60.	0.6138	0.2607	0.1302
122	80.5	60.5	0.6092	0.2561	0.1279
123	81.	61.	0.6124	0.2593	0.1295
124	81.5	61.5	0.6126	0.2595	0.1296
125	82.	62.	0.6106	0.2575	0.1286
126	82.5	62.5	0.6123	0.2592	0.1294
127	83.	63.	0.604	0.2509	0.1253
128	83.5	63.5	0.6048	0.2517	0.1257
129	84.	64.	0.6102	0.2571	0.1284
130	84.5	64.5	0.6059	0.2528	0.1262
131	85.	65.	0.6067	0.2536	0.1266
132	85.5	65.5	0.6039	0.2508	0.1252
133	86.	66.	0.6086	0.2555	0.1276
134	86.5	66.5	0.606	0.2529	0.1263
135	87.	67.	0.601	0.2479	0.1238
136	87.5	67.5	0.6083	0.2552	0.1274
137	88.	68.	0.6042	0.2511	0.1254
138	88.5	68.5	0.6025	0.2494	0.1245
139	89.	69.	0.603	0.2499	0.1248
140	89.5	69.5	0.6033	0.2502	0.1249
141	90.	70.	0.6009	0.2478	0.1237
142	90.5	70.5	0.6054	0.2523	0.126
143	91.	71.	0.6009	0.2478	0.1237
144	91.5	71.5	0.598	0.2449	0.1223
145	92.	72.	0.6	0.2469	0.1233
146	92.5	72.5	0.5989	0.2458	0.1227
147	93.	73.	0.6016	0.2485	0.1241
148	93.5	73.5	0.601	0.2479	0.1238
149	94.	74.	0.5992	0.2461	0.1229
150	94.5	74.5	0.5995	0.2464	0.123
151	95.	75.	0.6	0.2469	0.1233
152	95.5	75.5	0.5982	0.2451	0.1224
153	96.	76.	0.5936	0.2405	0.1201
154	96.5	76.5	0.5995	0.2464	0.123
155	97.	77.	0.5946	0.2415	0.1206
156	97.5	77.5	0.5927	0.2396	0.1196

157	98.	78.	0.593	0.2399	0.1198
158	98.5	78.5	0.5947	0.2416	0.1206
159	99.	79.	0.5955	0.2424	0.121
160	99.5	79.5	0.5926	0.2395	0.1196
161	100.	80.	0.5953	0.2422	0.1209
162	100.5	80.5	0.5923	0.2392	0.1194
163	101.	81.	0.5929	0.2398	0.1197
164	101.5	81.5	0.5943	0.2412	0.1204
165	102.	82.	0.5984	0.2453	0.1225
166	102.5	82.5	0.5946	0.2415	0.1206
167	103.	83.	0.5905	0.2374	0.1185
168	103.5	83.5	0.5929	0.2398	0.1197
169	104.	84.	0.5886	0.2355	0.1176
170	104.5	84.5	0.5919	0.2388	0.1192
171	105.	85.	0.5883	0.2352	0.1174
172	105.5	85.5	0.5899	0.2368	0.1182
173	106.	86.	0.5916	0.2385	0.1191
174	106.5	86.5	0.5883	0.2352	0.1174
175	107.	87.	0.5875	0.2344	0.117
176	107.5	87.5	0.5919	0.2388	0.1192
177	108.	88.	0.5911	0.238	0.1188
178	108.5	88.5	0.5869	0.2338	0.1167
179	109.	89.	0.5848	0.2317	0.1157
180	109.5	89.5	0.5872	0.2341	0.1169
181	110.	90.	0.5877	0.2346	0.1171
182	110.5	90.5	0.5886	0.2355	0.1176
183	111.	91.	0.5835	0.2304	0.115
184	111.5	91.5	0.5844	0.2313	0.1155
185	112.	92.	0.592	0.2389	0.1193
186	112.5	92.5	0.5862	0.2331	0.1164
187	113.	93.	0.586	0.2329	0.1163
188	113.5	93.5	0.5836	0.2305	0.1151
189	114.	94.	0.5877	0.2346	0.1171
190	114.5	94.5	0.5862	0.2331	0.1164
191	115.	95.	0.5839	0.2308	0.1152
192	115.5	95.5	0.5839	0.2308	0.1152
193	116.	96.	0.583	0.2299	0.1148
194	116.5	96.5	0.5844	0.2313	0.1155
195	117.	97.	0.5874	0.2343	0.117
196	117.5	97.5	0.5814	0.2283	0.114
197	118.	98.	0.5829	0.2298	0.1147
198	118.5	98.5	0.5767	0.2236	0.1116
199	119.	99.	0.5819	0.2288	0.1142
200	119.5	99.5	0.5773	0.2242	0.1119
201	120.	100.	0.5839	0.2308	0.1152
202	120.5	100.5	0.5829	0.2298	0.1147
203	121.	101.	0.5806	0.2275	0.1136
204	121.5	101.5	0.5815	0.2284	0.114
205	122.	102.	0.5827	0.2296	0.1146
206	122.5	102.5	0.5829	0.2298	0.1147
207	123.	103.	0.5699	0.2168	0.1082
208	123.5	103.5	0.5817	0.2286	0.1141
209	124.	104.	0.5811	0.228	0.1138
210	124.5	104.5	0.5838	0.2307	0.1152
211	125.	105.	0.5809	0.2278	0.1137
212	125.5	105.5	0.5805	0.2274	0.1135
213	126.	106.	0.5781	0.225	0.1123
214	126.5	106.5	0.5791	0.226	0.1128
215	127.	107.	0.58	0.2269	0.1133
216	127.5	107.5	0.5773	0.2242	0.1119

217	128.	108.	0.5758	0.2227	0.1112
218	128.5	108.5	0.5772	0.2241	0.1119
219	129.	109.	0.5755	0.2224	0.111
220	129.5	109.5	0.5758	0.2227	0.1112
221	130.	110.	0.5779	0.2248	0.1122
222	130.5	110.5	0.58	0.2269	0.1133
223	131.	111.	0.5714	0.2183	0.109
224	131.5	111.5	0.5747	0.2216	0.1106
225	132.	112.	0.576	0.2229	0.1113
226	132.5	112.5	0.5757	0.2226	0.1111
227	133.	113.	0.5782	0.2251	0.1124
228	133.5	113.5	0.5757	0.2226	0.1111
229	134.	114.	0.5709	0.2178	0.1087
230	134.5	114.5	0.576	0.2229	0.1113
231	135.	115.	0.5708	0.2177	0.1087
232	135.5	115.5	0.575	0.2219	0.1108
233	136.	116.	0.5726	0.2195	0.1096
234	136.5	116.5	0.5723	0.2192	0.1094
235	137.	117.	0.572	0.2189	0.1093
236	137.5	117.5	0.575	0.2219	0.1108
237	138.	118.	0.5702	0.2171	0.1084
238	138.5	118.5	0.5736	0.2205	0.1101
239	139.	119.	0.5709	0.2178	0.1087
240	139.5	119.5	0.5707	0.2176	0.1086
241	140.	120.	0.5694	0.2163	0.108
242	140.5	120.5	0.573	0.2199	0.1098
243	141.	121.	0.5709	0.2178	0.1087
244	141.5	121.5	0.5739	0.2208	0.1102
245	142.	122.	0.5737	0.2206	0.1101
246	142.5	122.5	0.5685	0.2154	0.1075
247	143.	123.	0.5701	0.217	0.1083
248	143.5	123.5	0.5677	0.2146	0.1071
249	144.	124.	0.5701	0.217	0.1083
250	144.5	124.5	0.5695	0.2164	0.108
251	145.	125.	0.5695	0.2164	0.108
252	145.5	125.5	0.5698	0.2167	0.1082
253	146.	126.	0.5632	0.2101	0.1049
254	146.5	126.5	0.5681	0.215	0.1073
255	147.	127.	0.5651	0.212	0.1058
256	147.5	127.5	0.566	0.2129	0.1063
257	148.	128.	0.5626	0.2095	0.1046
258	148.5	128.5	0.5677	0.2146	0.1071
259	149.	129.	0.5695	0.2164	0.108
260	149.5	129.5	0.5719	0.2188	0.1092
261	150.	130.	0.5686	0.2155	0.1076
262	150.5	130.5	0.5702	0.2171	0.1084
263	151.	131.	0.5671	0.214	0.1068
264	151.5	131.5	0.5639	0.2108	0.1052
265	152.	132.	0.5671	0.214	0.1068
266	152.5	132.5	0.5669	0.2138	0.1067
267	153.	133.	0.5624	0.2093	0.1045
268	153.5	133.5	0.568	0.2149	0.1073
269	154.	134.	0.5611	0.208	0.1038
270	154.5	134.5	0.5683	0.2152	0.1074
271	155.	135.	0.5673	0.2142	0.1069
272	155.5	135.5	0.5651	0.212	0.1058
273	156.	136.	0.5675	0.2144	0.107
274	156.5	136.5	0.5623	0.2092	0.1044
275	157.	137.	0.5637	0.2106	0.1051
276	157.5	137.5	0.5656	0.2125	0.1061

277	158.	138.	0.5668	0.2137	0.1067
278	158.5	138.5	0.5635	0.2104	0.105
279	159.	139.	0.5645	0.2114	0.1055
280	159.5	139.5	0.5623	0.2092	0.1044
281	160.	140.	0.5587	0.2056	0.1027
282	160.5	140.5	0.5624	0.2093	0.1045
283	161.	141.	0.5636	0.2105	0.1051
284	161.5	141.5	0.5639	0.2108	0.1052
285	162.	142.	0.562	0.2089	0.1043
286	162.5	142.5	0.5644	0.2113	0.1055
287	163.	143.	0.5582	0.2051	0.1024
288	163.5	143.5	0.5639	0.2108	0.1052
289	164.	144.	0.5605	0.2074	0.1035
290	164.5	144.5	0.5602	0.2071	0.1034
291	165.	145.	0.5626	0.2095	0.1046
292	165.5	145.5	0.5612	0.2081	0.1039
293	166.	146.	0.5567	0.2036	0.1017
294	166.5	146.5	0.5597	0.2066	0.1032
295	167.	147.	0.5651	0.212	0.1058
296	167.5	147.5	0.5644	0.2113	0.1055
297	168.	148.	0.5591	0.206	0.1029
298	168.5	148.5	0.5597	0.2066	0.1032
299	169.	149.	0.5608	0.2077	0.1037
300	169.5	149.5	0.5569	0.2038	0.1018
301	170.	150.	0.5612	0.2081	0.1039
302	170.5	150.5	0.5579	0.2048	0.1023
303	171.	151.	0.553	0.1999	9.981e-002
304	171.5	151.5	0.5593	0.2062	0.103
305	172.	152.	0.5554	0.2023	0.101
306	172.5	152.5	0.5572	0.2041	0.1019
307	173.	153.	0.5514	0.1983	9.901e-002
308	173.5	153.5	0.5551	0.202	0.1009
309	174.	154.	0.5546	0.2015	0.1006
310	174.5	154.5	0.5573	0.2042	0.102
311	175.	155.	0.557	0.2039	0.1018
312	175.5	155.5	0.5548	0.2017	0.1007
313	176.	156.	0.5578	0.2047	0.1022
314	176.5	156.5	0.5537	0.2006	0.1002
315	177.	157.	0.5575	0.2044	0.1021
316	177.5	157.5	0.5537	0.2006	0.1002
317	178.	158.	0.5515	0.1984	9.906e-002
318	178.5	158.5	0.5534	0.2003	0.1
319	179.	159.	0.5596	0.2065	0.1031
320	179.5	159.5	0.5593	0.2062	0.103
321	180.	160.	0.5527	0.1996	9.966e-002
322	180.5	160.5	0.5552	0.2021	0.1009
323	181.	161.	0.5542	0.2011	0.1004
324	181.5	161.5	0.5579	0.2048	0.1023
325	182.	162.	0.5543	0.2012	0.1005
326	182.5	162.5	0.5534	0.2003	0.1
327	183.	163.	0.5591	0.206	0.1029
328	183.5	163.5	0.5567	0.2036	0.1017
329	184.	164.	0.5525	0.1994	9.956e-002
330	184.5	164.5	0.5549	0.2018	0.1008
331	185.	165.	0.5498	0.1967	9.821e-002
332	185.5	165.5	0.5549	0.2018	0.1008
333	186.	166.	0.5525	0.1994	9.956e-002
334	186.5	166.5	0.5531	0.2	9.986e-002
335	187.	167.	0.5524	0.1993	9.951e-002
336	187.5	167.5	0.5518	0.1987	9.921e-002

337	188.	168.	0.5512	0.1981	9.891e-002
338	188.5	168.5	0.5503	0.1972	9.846e-002
339	189.	169.	0.5465	0.1934	9.656e-002
340	189.5	169.5	0.5498	0.1967	9.821e-002
341	190.	170.	0.5537	0.2006	0.1002
342	190.5	170.5	0.5524	0.1993	9.951e-002
343	191.	171.	0.5465	0.1934	9.656e-002
344	191.5	171.5	0.5527	0.1996	9.966e-002
345	192.	172.	0.55	0.1969	9.831e-002
346	192.5	172.5	0.5513	0.1982	9.896e-002
347	193.	173.	0.5492	0.1961	9.791e-002
348	193.5	173.5	0.5519	0.1988	9.926e-002
349	194.	174.	0.5503	0.1972	9.846e-002
350	194.5	174.5	0.5479	0.1948	9.726e-002
351	195.	175.	0.5516	0.1985	9.911e-002
352	195.5	175.5	0.5504	0.1973	9.851e-002
353	196.	176.	0.5542	0.2011	0.1004
354	196.5	176.5	0.5492	0.1961	9.791e-002
355	197.	177.	0.5512	0.1981	9.891e-002
356	197.5	177.5	0.5468	0.1937	9.671e-002
357	198.	178.	0.5489	0.1958	9.776e-002
358	198.5	178.5	0.5482	0.1951	9.741e-002
359	199.	179.	0.5461	0.193	9.636e-002
360	199.5	179.5	0.5467	0.1936	9.666e-002
361	200.	180.	0.5461	0.193	9.636e-002
362	200.5	180.5	0.5462	0.1931	9.641e-002
363	201.	181.	0.5467	0.1936	9.666e-002
364	201.5	181.5	0.5524	0.1993	9.951e-002
365	202.	182.	0.5482	0.1951	9.741e-002
366	202.5	182.5	0.5462	0.1931	9.641e-002
367	203.	183.	0.5453	0.1922	9.596e-002
368	203.5	183.5	0.5453	0.1922	9.596e-002
369	204.	184.	0.5438	0.1907	9.521e-002
370	204.5	184.5	0.5456	0.1925	9.611e-002
371	205.	185.	0.547	0.1939	9.681e-002
372	205.5	185.5	0.5449	0.1918	9.576e-002
373	206.	186.	0.5428	0.1897	9.471e-002
374	206.5	186.5	0.5465	0.1934	9.656e-002
375	207.	187.	0.5497	0.1966	9.816e-002
376	207.5	187.5	0.5426	0.1895	9.461e-002
377	208.	188.	0.5441	0.191	9.536e-002
378	208.5	188.5	0.5455	0.1924	9.606e-002
379	209.	189.	0.5461	0.193	9.636e-002
380	209.5	189.5	0.5446	0.1915	9.561e-002
381	210.	190.	0.5467	0.1936	9.666e-002
382	210.5	190.5	0.5425	0.1894	9.456e-002
383	211.	191.	0.5479	0.1948	9.726e-002
384	211.5	191.5	0.547	0.1939	9.681e-002
385	212.	192.	0.5434	0.1903	9.501e-002
386	212.5	192.5	0.5441	0.191	9.536e-002
387	213.	193.	0.5422	0.1891	9.441e-002
388	213.5	193.5	0.5387	0.1856	9.267e-002
389	214.	194.	0.5459	0.1928	9.626e-002
390	214.5	194.5	0.5479	0.1948	9.726e-002
391	215.	195.	0.542	0.1889	9.431e-002
392	215.5	195.5	0.5458	0.1927	9.621e-002
393	216.	196.	0.5396	0.1865	9.311e-002
394	216.5	196.5	0.5422	0.1891	9.441e-002
395	217.	197.	0.5405	0.1874	9.356e-002
396	217.5	197.5	0.5422	0.1891	9.441e-002

397	218.	198.	0.5437	0.1906	9.516e-002
398	218.5	198.5	0.5407	0.1876	9.366e-002
399	219.	199.	0.5446	0.1915	9.561e-002
400	219.5	199.5	0.5426	0.1895	9.461e-002
401	220.	200.	0.5437	0.1906	9.516e-002
402	220.5	200.5	0.5411	0.188	9.386e-002
403	221.	201.	0.5395	0.1864	9.307e-002
404	221.5	201.5	0.542	0.1889	9.431e-002
405	222.	202.	0.5459	0.1928	9.626e-002
406	222.5	202.5	0.5419	0.1888	9.426e-002
407	223.	203.	0.5419	0.1888	9.426e-002
408	223.5	203.5	0.5407	0.1876	9.366e-002
409	224.	204.	0.5389	0.1858	9.277e-002
410	224.5	204.5	0.5399	0.1868	9.326e-002
411	225.	205.	0.5404	0.1873	9.351e-002
412	225.5	205.5	0.5398	0.1867	9.321e-002
413	226.	206.	0.5374	0.1843	9.202e-002
414	226.5	206.5	0.5383	0.1852	9.247e-002
415	227.	207.	0.5447	0.1916	9.566e-002
416	227.5	207.5	0.5387	0.1856	9.267e-002
417	228.	208.	0.5413	0.1882	9.396e-002
418	228.5	208.5	0.5377	0.1846	9.217e-002
419	229.	209.	0.5398	0.1867	9.321e-002
420	229.5	209.5	0.5378	0.1847	9.222e-002
421	230.	210.	0.5404	0.1873	9.351e-002
422	230.5	210.5	0.5405	0.1874	9.356e-002
423	231.	211.	0.5381	0.185	9.237e-002
424	231.5	211.5	0.5429	0.1898	9.476e-002
425	232.	212.	0.5372	0.1841	9.192e-002
426	232.5	212.5	0.5372	0.1841	9.192e-002
427	233.	213.	0.5343	0.1812	9.047e-002
428	233.5	213.5	0.5402	0.1871	9.341e-002
429	234.	214.	0.5371	0.184	9.187e-002
430	234.5	214.5	0.5401	0.187	9.336e-002
431	235.	215.	0.5366	0.1835	9.162e-002
432	235.5	215.5	0.5363	0.1832	9.147e-002
433	236.	216.	0.5348	0.1817	9.072e-002
434	236.5	216.5	0.5392	0.1861	9.292e-002
435	237.	217.	0.5359	0.1828	9.127e-002
436	237.5	217.5	0.5342	0.1811	9.042e-002
437	238.	218.	0.5366	0.1835	9.162e-002
438	238.5	218.5	0.5345	0.1814	9.057e-002
439	239.	219.	0.5346	0.1815	9.062e-002
440	239.5	219.5	0.5429	0.1898	9.476e-002
441	240.	220.	0.5377	0.1846	9.217e-002
442	240.5	220.5	0.5338	0.1807	9.022e-002
443	241.	221.	0.535	0.1819	9.082e-002
444	241.5	221.5	0.5332	0.1801	8.992e-002
445	242.	222.	0.5355	0.1824	9.107e-002
446	242.5	222.5	0.5348	0.1817	9.072e-002
447	243.	223.	0.5362	0.1831	9.142e-002
448	243.5	223.5	0.5363	0.1832	9.147e-002
449	244.	224.	0.5377	0.1846	9.217e-002
450	244.5	224.5	0.5306	0.1775	8.862e-002
451	245.	225.	0.536	0.1829	9.132e-002
452	245.5	225.5	0.5392	0.1861	9.292e-002
453	246.	226.	0.5332	0.1801	8.992e-002
454	246.5	226.5	0.5322	0.1791	8.942e-002
455	247.	227.	0.5348	0.1817	9.072e-002
456	247.5	227.5	0.533	0.1799	8.982e-002

457	248.	228.	0.5365	0.1834	9.157e-002
458	248.5	228.5	0.5312	0.1781	8.892e-002
459	249.	229.	0.5303	0.1772	8.847e-002
460	249.5	229.5	0.5327	0.1796	8.967e-002
461	250.	230.	0.5336	0.1805	9.012e-002
462	250.5	230.5	0.5318	0.1787	8.922e-002
463	251.	231.	0.5335	0.1804	9.007e-002
464	251.5	231.5	0.5348	0.1817	9.072e-002
465	252.	232.	0.5325	0.1794	8.957e-002
466	252.5	232.5	0.5325	0.1794	8.957e-002
467	253.	233.	0.5308	0.1777	8.872e-002
468	253.5	233.5	0.5345	0.1814	9.057e-002
469	254.	234.	0.53	0.1769	8.832e-002
470	254.5	234.5	0.5325	0.1794	8.957e-002
471	255.	235.	0.5308	0.1777	8.872e-002
472	255.5	235.5	0.5338	0.1807	9.022e-002
473	256.	236.	0.5322	0.1791	8.942e-002
474	256.5	236.5	0.5293	0.1762	8.797e-002
475	257.	237.	0.5293	0.1762	8.797e-002
476	257.5	237.5	0.5313	0.1782	8.897e-002
477	258.	238.	0.5325	0.1794	8.957e-002
478	258.5	238.5	0.531	0.1779	8.882e-002
479	259.	239.	0.5277	0.1746	8.717e-002
480	259.5	239.5	0.5289	0.1758	8.777e-002
481	260.	240.	0.5309	0.1778	8.877e-002
482	260.5	240.5	0.5308	0.1777	8.872e-002
483	261.	241.	0.5287	0.1756	8.767e-002
484	261.5	241.5	0.5271	0.174	8.687e-002
485	262.	242.	0.53	0.1769	8.832e-002
486	262.5	242.5	0.5287	0.1756	8.767e-002
487	263.	243.	0.5322	0.1791	8.942e-002
488	263.5	243.5	0.5285	0.1754	8.757e-002
489	264.	244.	0.5279	0.1748	8.727e-002
490	264.5	244.5	0.5269	0.1738	8.677e-002
491	265.	245.	0.5289	0.1758	8.777e-002
492	265.5	245.5	0.5266	0.1735	8.662e-002
493	266.	246.	0.5277	0.1746	8.717e-002
494	266.5	246.5	0.5294	0.1763	8.802e-002
495	267.	247.	0.5271	0.174	8.687e-002
496	267.5	247.5	0.5313	0.1782	8.897e-002
497	268.	248.	0.5289	0.1758	8.777e-002
498	268.5	248.5	0.53	0.1769	8.832e-002
499	269.	249.	0.5246	0.1715	8.563e-002
500	269.5	249.5	0.5281	0.175	8.737e-002
501	270.	250.	0.5297	0.1766	8.817e-002
502	270.5	250.5	0.5261	0.173	8.637e-002
503	271.	251.	0.5269	0.1738	8.677e-002
504	271.5	251.5	0.5247	0.1716	8.568e-002
505	272.	252.	0.5236	0.1705	8.513e-002
506	272.5	252.5	0.5273	0.1742	8.697e-002
507	273.	253.	0.5274	0.1743	8.702e-002
508	273.5	253.5	0.5308	0.1777	8.872e-002
509	274.	254.	0.5264	0.1733	8.652e-002
510	274.5	254.5	0.527	0.1739	8.682e-002
511	275.	255.	0.5296	0.1765	8.812e-002
512	275.5	255.5	0.5289	0.1758	8.777e-002
513	276.	256.	0.5269	0.1738	8.677e-002
514	276.5	256.5	0.5246	0.1715	8.563e-002
515	277.	257.	0.5245	0.1714	8.558e-002
516	277.5	257.5	0.5267	0.1736	8.667e-002

517	278.	258.	0.5256	0.1725	8.613e-002
518	278.5	258.5	0.5255	0.1724	8.608e-002
519	279.	259.	0.5252	0.1721	8.593e-002
520	279.5	259.5	0.5296	0.1765	8.812e-002
521	280.	260.	0.5276	0.1745	8.712e-002
522	280.5	260.5	0.5273	0.1742	8.697e-002
523	281.	261.	0.5245	0.1714	8.558e-002
524	281.5	261.5	0.5241	0.171	8.538e-002
525	282.	262.	0.5297	0.1766	8.817e-002
526	282.5	262.5	0.5228	0.1697	8.473e-002
527	283.	263.	0.5269	0.1738	8.677e-002
528	283.5	263.5	0.5214	0.1683	8.403e-002
529	284.	264.	0.5232	0.1701	8.493e-002
530	284.5	264.5	0.525	0.1719	8.583e-002
531	285.	265.	0.5234	0.1703	8.503e-002
532	285.5	265.5	0.5267	0.1736	8.667e-002
533	286.	266.	0.5214	0.1683	8.403e-002
534	286.5	266.5	0.5216	0.1685	8.413e-002
535	287.	267.	0.5222	0.1691	8.443e-002
536	287.5	267.5	0.5249	0.1718	8.578e-002
537	288.	268.	0.522	0.1689	8.433e-002
538	288.5	268.5	0.5259	0.1728	8.627e-002
539	289.	269.	0.5217	0.1686	8.418e-002
540	289.5	269.5	0.524	0.1709	8.533e-002
541	290.	270.	0.524	0.1709	8.533e-002
542	290.5	270.5	0.5243	0.1712	8.548e-002
543	291.	271.	0.5232	0.1701	8.493e-002
544	291.5	271.5	0.5199	0.1668	8.328e-002
545	292.	272.	0.5189	0.1658	8.278e-002
546	292.5	272.5	0.5246	0.1715	8.563e-002
547	293.	273.	0.5202	0.1671	8.343e-002
548	293.5	273.5	0.5213	0.1682	8.398e-002
549	294.	274.	0.5217	0.1686	8.418e-002
550	294.5	274.5	0.5201	0.167	8.338e-002
551	295.	275.	0.5216	0.1685	8.413e-002
552	295.5	275.5	0.521	0.1679	8.383e-002
553	296.	276.	0.5206	0.1675	8.363e-002
554	296.5	276.5	0.5201	0.167	8.338e-002
555	297.	277.	0.5208	0.1677	8.373e-002
556	297.5	277.5	0.522	0.1689	8.433e-002
557	298.	278.	0.5195	0.1664	8.308e-002
558	298.5	278.5	0.5198	0.1667	8.323e-002
559	299.	279.	0.5222	0.1691	8.443e-002
560	299.5	279.5	0.5226	0.1695	8.463e-002
561	300.	280.	0.5181	0.165	8.238e-002
562	300.5	280.5	0.5192	0.1661	8.293e-002
563	301.	281.	0.5206	0.1675	8.363e-002
564	301.5	281.5	0.5196	0.1665	8.313e-002
565	302.	282.	0.5199	0.1668	8.328e-002
566	302.5	282.5	0.5199	0.1668	8.328e-002
567	303.	283.	0.5184	0.1653	8.253e-002
568	303.5	283.5	0.5196	0.1665	8.313e-002
569	304.	284.	0.5202	0.1671	8.343e-002
570	304.5	284.5	0.518	0.1649	8.233e-002
571	305.	285.	0.5151	0.162	8.088e-002
572	305.5	285.5	0.5212	0.1681	8.393e-002
573	306.	286.	0.5163	0.1632	8.148e-002
574	306.5	286.5	0.5208	0.1677	8.373e-002
575	307.	287.	0.5207	0.1676	8.368e-002
576	307.5	287.5	0.5199	0.1668	8.328e-002

577	308.	288.	0.5186	0.1655	8.263e-002
578	308.5	288.5	0.515	0.1619	8.083e-002
579	309.	289.	0.5165	0.1634	8.158e-002
580	309.5	289.5	0.5195	0.1664	8.308e-002
581	310.	290.	0.5145	0.1614	8.058e-002
582	310.5	290.5	0.5144	0.1613	8.053e-002
583	311.	291.	0.5174	0.1643	8.203e-002
584	311.5	291.5	0.5153	0.1622	8.098e-002
585	312.	292.	0.5141	0.161	8.038e-002
586	312.5	292.5	0.5145	0.1614	8.058e-002
587	313.	293.	0.5201	0.167	8.338e-002
588	313.5	293.5	0.5166	0.1635	8.163e-002
589	314.	294.	0.5166	0.1635	8.163e-002
590	314.5	294.5	0.5154	0.1623	8.103e-002
591	315.	295.	0.5181	0.165	8.238e-002
592	315.5	295.5	0.5174	0.1643	8.203e-002
593	316.	296.	0.5156	0.1625	8.113e-002
594	316.5	296.5	0.5153	0.1622	8.098e-002
595	317.	297.	0.5135	0.1604	8.008e-002
596	317.5	297.5	0.5175	0.1644	8.208e-002
597	318.	298.	0.5172	0.1641	8.193e-002
598	318.5	298.5	0.5147	0.1616	8.068e-002
599	319.	299.	0.5187	0.1656	8.268e-002
600	319.5	299.5	0.5187	0.1656	8.268e-002
601	320.	300.	0.5193	0.1662	8.298e-002
602	320.5	300.5	0.518	0.1649	8.233e-002
603	321.	301.	0.5189	0.1658	8.278e-002
604	321.5	301.5	0.5142	0.1611	8.043e-002
605	322.	302.	0.5124	0.1593	7.953e-002
606	322.5	302.5	0.5117	0.1586	7.919e-002
607	323.	303.	0.5184	0.1653	8.253e-002
608	323.5	303.5	0.5123	0.1592	7.948e-002
609	324.	304.	0.5132	0.1601	7.993e-002
610	324.5	304.5	0.5136	0.1605	8.013e-002
611	325.	305.	0.5141	0.161	8.038e-002
612	325.5	305.5	0.518	0.1649	8.233e-002
613	326.	306.	0.5157	0.1626	8.118e-002
614	326.5	306.5	0.5123	0.1592	7.948e-002
615	327.	307.	0.5159	0.1628	8.128e-002
616	327.5	307.5	0.5117	0.1586	7.919e-002
617	328.	308.	0.5142	0.1611	8.043e-002
618	328.5	308.5	0.5129	0.1598	7.978e-002
619	329.	309.	0.5153	0.1622	8.098e-002
620	329.5	309.5	0.5147	0.1616	8.068e-002
621	330.	310.	0.5189	0.1658	8.278e-002
622	330.5	310.5	0.5186	0.1655	8.263e-002
623	331.	311.	0.5154	0.1623	8.103e-002
624	331.5	311.5	0.5156	0.1625	8.113e-002
625	332.	312.	0.5154	0.1623	8.103e-002
626	332.5	312.5	0.5121	0.159	7.938e-002
627	333.	313.	0.5108	0.1577	7.874e-002
628	333.5	313.5	0.5154	0.1623	8.103e-002
629	334.	314.	0.5133	0.1602	7.998e-002
630	334.5	314.5	0.5127	0.1596	7.968e-002
631	335.	315.	0.5154	0.1623	8.103e-002
632	335.5	315.5	0.5114	0.1583	7.904e-002
633	336.	316.	0.5117	0.1586	7.919e-002
634	336.5	316.5	0.5112	0.1581	7.894e-002
635	337.	317.	0.5096	0.1565	7.814e-002
636	337.5	317.5	0.515	0.1619	8.083e-002

637	338.	318.	0.513	0.1599	7.983e-002
638	338.5	318.5	0.5133	0.1602	7.998e-002
639	339.	319.	0.512	0.1589	7.933e-002
640	339.5	319.5	0.509	0.1559	7.784e-002
641	340.	320.	0.5093	0.1562	7.799e-002
642	340.5	320.5	0.5138	0.1607	8.023e-002
643	341.	321.	0.5126	0.1595	7.963e-002
644	341.5	321.5	0.5127	0.1596	7.968e-002
645	342.	322.	0.5141	0.161	8.038e-002
646	342.5	322.5	0.5132	0.1601	7.993e-002
647	343.	323.	0.5126	0.1595	7.963e-002
648	343.5	323.5	0.5085	0.1554	7.759e-002
649	344.	324.	0.5103	0.1572	7.849e-002
650	344.5	324.5	0.5079	0.1548	7.729e-002
651	345.	325.	0.5117	0.1586	7.919e-002
652	345.5	325.5	0.5127	0.1596	7.968e-002
653	346.	326.	0.5094	0.1563	7.804e-002
654	346.5	326.5	0.513	0.1599	7.983e-002
655	347.	327.	0.5115	0.1584	7.909e-002
656	347.5	327.5	0.51	0.1569	7.834e-002
657	348.	328.	0.5103	0.1572	7.849e-002
658	348.5	328.5	0.5096	0.1565	7.814e-002
659	349.	329.	0.5093	0.1562	7.799e-002
660	349.5	329.5	0.5111	0.158	7.889e-002
661	350.	330.	0.5094	0.1563	7.804e-002
662	350.5	330.5	0.5114	0.1583	7.904e-002
663	351.	331.	0.5087	0.1556	7.769e-002
664	351.5	331.5	0.5132	0.1601	7.993e-002
665	352.	332.	0.51	0.1569	7.834e-002
666	352.5	332.5	0.5121	0.159	7.938e-002
667	353.	333.	0.5093	0.1562	7.799e-002
668	353.5	333.5	0.5108	0.1577	7.874e-002
669	354.	334.	0.5111	0.158	7.889e-002
670	354.5	334.5	0.5117	0.1586	7.919e-002
671	355.	335.	0.5073	0.1542	7.699e-002
672	355.5	335.5	0.5069	0.1538	7.679e-002
673	356.	336.	0.506	0.1529	7.634e-002
674	356.5	336.5	0.5091	0.156	7.789e-002
675	357.	337.	0.5102	0.1571	7.844e-002
676	357.5	337.5	0.5141	0.161	8.038e-002
677	358.	338.	0.5103	0.1572	7.849e-002
678	358.5	338.5	0.5078	0.1547	7.724e-002
679	359.	339.	0.5069	0.1538	7.679e-002
680	359.5	339.5	0.5109	0.1578	7.879e-002
681	360.	340.	0.5067	0.1536	7.669e-002
682	360.5	340.5	0.5096	0.1565	7.814e-002
683	361.	341.	0.5078	0.1547	7.724e-002
684	361.5	341.5	0.5108	0.1577	7.874e-002
685	362.	342.	0.5072	0.1541	7.694e-002
686	362.5	342.5	0.5063	0.1532	7.649e-002
687	363.	343.	0.5085	0.1554	7.759e-002
688	363.5	343.5	0.506	0.1529	7.634e-002
689	364.	344.	0.5051	0.152	7.589e-002
690	364.5	344.5	0.5043	0.1512	7.549e-002
691	365.	345.	0.5027	0.1496	7.469e-002
692	365.5	345.5	0.5096	0.1565	7.814e-002
693	366.	346.	0.5066	0.1535	7.664e-002
694	366.5	346.5	0.5006	0.1475	7.364e-002
695	367.	347.	0.5064	0.1533	7.654e-002
696	367.5	347.5	0.5024	0.1493	7.454e-002

697	368.	348.	0.5064	0.1533	7.654e-002
698	368.5	348.5	0.5078	0.1547	7.724e-002
699	369.	349.	0.5093	0.1562	7.799e-002
700	369.5	349.5	0.5048	0.1517	7.574e-002
701	370.	350.	0.5097	0.1566	7.819e-002
702	370.5	350.5	0.5069	0.1538	7.679e-002
703	371.	351.	0.5024	0.1493	7.454e-002
704	371.5	351.5	0.5051	0.152	7.589e-002
705	372.	352.	0.507	0.1539	7.684e-002
706	372.5	352.5	0.5049	0.1518	7.579e-002
707	373.	353.	0.5061	0.153	7.639e-002
708	373.5	353.5	0.501	0.1479	7.384e-002
709	374.	354.	0.5046	0.1515	7.564e-002
710	374.5	354.5	0.5013	0.1482	7.399e-002
711	375.	355.	0.5075	0.1544	7.709e-002
712	375.5	355.5	0.5054	0.1523	7.604e-002
713	376.	356.	0.5004	0.1473	7.354e-002
714	376.5	356.5	0.5051	0.152	7.589e-002
715	377.	357.	0.5063	0.1532	7.649e-002
716	377.5	357.5	0.504	0.1509	7.534e-002
717	378.	358.	0.5043	0.1512	7.549e-002
718	378.5	358.5	0.5024	0.1493	7.454e-002
719	379.	359.	0.5033	0.1502	7.499e-002
720	379.5	359.5	0.5013	0.1482	7.399e-002
721	380.	360.	0.506	0.1529	7.634e-002
722	380.5	360.5	0.5025	0.1494	7.459e-002
723	381.	361.	0.5024	0.1493	7.454e-002
724	381.5	361.5	0.5043	0.1512	7.549e-002
725	382.	362.	0.5039	0.1508	7.529e-002
726	382.5	362.5	0.503	0.1499	7.484e-002
727	383.	363.	0.5067	0.1536	7.669e-002
728	383.5	363.5	0.5019	0.1488	7.429e-002
729	384.	364.	0.5019	0.1488	7.429e-002
730	384.5	364.5	0.5022	0.1491	7.444e-002
731	385.	365.	0.503	0.1499	7.484e-002
732	385.5	365.5	0.5024	0.1493	7.454e-002
733	386.	366.	0.5034	0.1503	7.504e-002
734	386.5	366.5	0.5012	0.1481	7.394e-002
735	387.	367.	0.5036	0.1505	7.514e-002
736	387.5	367.5	0.5034	0.1503	7.504e-002
737	388.	368.	0.5027	0.1496	7.469e-002
738	388.5	368.5	0.5021	0.149	7.439e-002
739	389.	369.	0.5019	0.1488	7.429e-002
740	389.5	369.5	0.5058	0.1527	7.624e-002
741	390.	370.	0.5003	0.1472	7.349e-002
742	390.5	370.5	0.5021	0.149	7.439e-002
743	391.	371.	0.5024	0.1493	7.454e-002
744	391.5	371.5	0.5043	0.1512	7.549e-002
745	392.	372.	0.5003	0.1472	7.349e-002
746	392.5	372.5	0.4977	0.1446	7.22e-002
747	393.	373.	0.5007	0.1476	7.369e-002
748	393.5	373.5	0.5046	0.1515	7.564e-002
749	394.	374.	0.5018	0.1487	7.424e-002
750	394.5	374.5	0.5001	0.147	7.339e-002
751	395.	375.	0.5049	0.1518	7.579e-002
752	395.5	375.5	0.5004	0.1473	7.354e-002
753	396.	376.	0.5012	0.1481	7.394e-002
754	396.5	376.5	0.4979	0.1448	7.23e-002
755	397.	377.	0.5006	0.1475	7.364e-002
756	397.5	377.5	0.5031	0.15	7.489e-002

757	398.	378.	0.4992	0.1461	7.294e-002
758	398.5	378.5	0.4995	0.1464	7.309e-002
759	399.	379.	0.5	0.1469	7.334e-002
760	399.5	379.5	0.4996	0.1465	7.314e-002
761	400.	380.	0.4986	0.1455	7.264e-002
762	400.5	380.5	0.5004	0.1473	7.354e-002
763	401.	381.	0.4992	0.1461	7.294e-002
764	401.5	381.5	0.5025	0.1494	7.459e-002
765	402.	382.	0.5004	0.1473	7.354e-002
766	402.5	382.5	0.4989	0.1458	7.279e-002
767	403.	383.	0.4992	0.1461	7.294e-002
768	403.5	383.5	0.4962	0.1431	7.145e-002
769	404.	384.	0.5006	0.1475	7.364e-002
770	404.5	384.5	0.5001	0.147	7.339e-002
771	405.	385.	0.5009	0.1478	7.379e-002
772	405.5	385.5	0.5006	0.1475	7.364e-002
773	406.	386.	0.5004	0.1473	7.354e-002
774	406.5	386.5	0.4982	0.1451	7.244e-002
775	407.	387.	0.5001	0.147	7.339e-002
776	407.5	387.5	0.4977	0.1446	7.22e-002
777	408.	388.	0.4949	0.1418	7.08e-002
778	408.5	388.5	0.5009	0.1478	7.379e-002
779	409.	389.	0.5009	0.1478	7.379e-002
780	409.5	389.5	0.5016	0.1485	7.414e-002
781	410.	390.	0.4977	0.1446	7.22e-002
782	410.5	390.5	0.4967	0.1436	7.17e-002
783	411.	391.	0.5015	0.1484	7.409e-002
784	411.5	391.5	0.4991	0.146	7.289e-002
785	412.	392.	0.5007	0.1476	7.369e-002
786	412.5	392.5	0.5006	0.1475	7.364e-002
787	413.	393.	0.4979	0.1448	7.23e-002
788	413.5	393.5	0.4979	0.1448	7.23e-002
789	414.	394.	0.4977	0.1446	7.22e-002
790	414.5	394.5	0.4962	0.1431	7.145e-002
791	415.	395.	0.4982	0.1451	7.244e-002
792	415.5	395.5	0.4973	0.1442	7.2e-002
793	416.	396.	0.4991	0.146	7.289e-002
794	416.5	396.5	0.4958	0.1427	7.125e-002
795	417.	397.	0.4962	0.1431	7.145e-002
796	417.5	397.5	0.5003	0.1472	7.349e-002
797	418.	398.	0.4956	0.1425	7.115e-002
798	418.5	398.5	0.4991	0.146	7.289e-002
799	419.	399.	0.4956	0.1425	7.115e-002
800	419.5	399.5	0.4971	0.144	7.19e-002
801	420.	400.	0.4937	0.1406	7.02e-002
802	420.5	400.5	0.4973	0.1442	7.2e-002
803	421.	401.	0.4935	0.1404	7.01e-002
804	421.5	401.5	0.4914	0.1383	6.905e-002
805	422.	402.	0.4934	0.1403	7.005e-002
806	422.5	402.5	0.4971	0.144	7.19e-002
807	423.	403.	0.4996	0.1465	7.314e-002
808	423.5	403.5	0.4992	0.1461	7.294e-002
809	424.	404.	0.4953	0.1422	7.1e-002
810	424.5	404.5	0.4988	0.1457	7.274e-002
811	425.	405.	0.4959	0.1428	7.13e-002
812	425.5	405.5	0.4961	0.143	7.14e-002
813	426.	406.	0.5007	0.1476	7.369e-002
814	426.5	406.5	0.4983	0.1452	7.249e-002
815	427.	407.	0.4973	0.1442	7.2e-002
816	427.5	407.5	0.492	0.1389	6.935e-002

817	428.	408.	0.4965	0.1434	7.16e-002
818	428.5	408.5	0.4953	0.1422	7.1e-002
819	429.	409.	0.4907	0.1376	6.87e-002
820	429.5	409.5	0.494	0.1409	7.035e-002
821	430.	410.	0.4949	0.1418	7.08e-002
822	430.5	410.5	0.4932	0.1401	6.995e-002
823	431.	411.	0.4944	0.1413	7.055e-002
824	431.5	411.5	0.4961	0.143	7.14e-002
825	432.	412.	0.4942	0.1411	7.045e-002
826	432.5	412.5	0.4926	0.1395	6.965e-002
827	433.	413.	0.4964	0.1433	7.155e-002
828	433.5	413.5	0.4938	0.1407	7.025e-002
829	434.	414.	0.4932	0.1401	6.995e-002
830	434.5	414.5	0.4907	0.1376	6.87e-002
831	435.	415.	0.4958	0.1427	7.125e-002
832	435.5	415.5	0.4934	0.1403	7.005e-002
833	436.	416.	0.4928	0.1397	6.975e-002
834	436.5	416.5	0.4947	0.1416	7.07e-002
835	437.	417.	0.4962	0.1431	7.145e-002
836	437.5	417.5	0.4958	0.1427	7.125e-002
837	438.	418.	0.4952	0.1421	7.095e-002
838	438.5	418.5	0.4955	0.1424	7.11e-002
839	439.	419.	0.4916	0.1385	6.915e-002
840	439.5	419.5	0.4919	0.1388	6.93e-002
841	440.	420.	0.4928	0.1397	6.975e-002
842	440.5	420.5	0.4952	0.1421	7.095e-002
843	441.	421.	0.4926	0.1395	6.965e-002
844	441.5	421.5	0.4959	0.1428	7.13e-002
845	442.	422.	0.4907	0.1376	6.87e-002
846	442.5	422.5	0.4952	0.1421	7.095e-002
847	443.	423.	0.4935	0.1404	7.01e-002
848	443.5	423.5	0.4926	0.1395	6.965e-002
849	444.	424.	0.4904	0.1373	6.855e-002
850	444.5	424.5	0.4904	0.1373	6.855e-002
851	445.	425.	0.495	0.1419	7.085e-002
852	445.5	425.5	0.4931	0.14	6.99e-002
853	446.	426.	0.4925	0.1394	6.96e-002
854	446.5	426.5	0.492	0.1389	6.935e-002
855	447.	427.	0.4914	0.1383	6.905e-002
856	447.5	427.5	0.4907	0.1376	6.87e-002
857	448.	428.	0.4905	0.1374	6.86e-002
858	448.5	428.5	0.4926	0.1395	6.965e-002
859	449.	429.	0.4937	0.1406	7.02e-002
860	449.5	429.5	0.488	0.1349	6.735e-002
861	450.	430.	0.4962	0.1431	7.145e-002
862	450.5	430.5	0.4884	0.1353	6.755e-002
863	451.	431.	0.4937	0.1406	7.02e-002
864	451.5	431.5	0.4891	0.136	6.79e-002
865	452.	432.	0.4912	0.1381	6.895e-002
866	452.5	432.5	0.4931	0.14	6.99e-002
867	453.	433.	0.4884	0.1353	6.755e-002
868	453.5	433.5	0.491	0.1379	6.885e-002
869	454.	434.	0.4887	0.1356	6.77e-002
870	454.5	434.5	0.4856	0.1325	6.615e-002
871	455.	435.	0.4899	0.1368	6.83e-002
872	455.5	435.5	0.4916	0.1385	6.915e-002
873	456.	436.	0.485	0.1319	6.585e-002
874	456.5	436.5	0.4899	0.1368	6.83e-002
875	457.	437.	0.492	0.1389	6.935e-002
876	457.5	437.5	0.4907	0.1376	6.87e-002

877	458.	438.	0.4875	0.1344	6.71e-002
878	458.5	438.5	0.4949	0.1418	7.08e-002
879	459.	439.	0.4874	0.1343	6.705e-002
880	459.5	439.5	0.4937	0.1406	7.02e-002
881	460.	440.	0.4871	0.134	6.69e-002
882	460.5	440.5	0.4882	0.1351	6.745e-002
883	461.	441.	0.4815	0.1284	6.411e-002
884	461.5	441.5	0.4921	0.139	6.94e-002
885	462.	442.	0.4912	0.1381	6.895e-002
886	462.5	442.5	0.4882	0.1351	6.745e-002
887	463.	443.	0.4886	0.1355	6.765e-002
888	463.5	443.5	0.4882	0.1351	6.745e-002
889	464.	444.	0.4864	0.1333	6.655e-002
890	464.5	444.5	0.4875	0.1344	6.71e-002
891	465.	445.	0.4886	0.1355	6.765e-002
892	465.5	445.5	0.4874	0.1343	6.705e-002
893	466.	446.	0.4931	0.14	6.99e-002
894	466.5	446.5	0.4881	0.135	6.74e-002
895	467.	447.	0.4926	0.1395	6.965e-002
896	467.5	447.5	0.4841	0.131	6.541e-002
897	468.	448.	0.4861	0.133	6.64e-002
898	468.5	448.5	0.4863	0.1332	6.65e-002
899	469.	449.	0.4859	0.1328	6.63e-002
900	469.5	449.5	0.4852	0.1321	6.595e-002
901	470.	450.	0.488	0.1349	6.735e-002
902	470.5	450.5	0.4874	0.1343	6.705e-002
903	471.	451.	0.4797	0.1266	6.321e-002
904	471.5	451.5	0.4881	0.135	6.74e-002
905	472.	452.	0.4838	0.1307	6.526e-002
906	472.5	452.5	0.4857	0.1326	6.62e-002
907	473.	453.	0.4877	0.1346	6.72e-002
908	473.5	453.5	0.4861	0.133	6.64e-002
909	474.	454.	0.4849	0.1318	6.58e-002
910	474.5	454.5	0.4896	0.1365	6.815e-002
911	475.	455.	0.4887	0.1356	6.77e-002
912	475.5	455.5	0.4859	0.1328	6.63e-002
913	476.	456.	0.4863	0.1332	6.65e-002
914	476.5	456.5	0.4875	0.1344	6.71e-002
915	477.	457.	0.4867	0.1336	6.67e-002
916	477.5	457.5	0.4886	0.1355	6.765e-002
917	478.	458.	0.4822	0.1291	6.446e-002
918	478.5	458.5	0.486	0.1329	6.635e-002
919	479.	459.	0.4866	0.1335	6.665e-002
920	479.5	459.5	0.4838	0.1307	6.526e-002
921	480.	460.	0.4867	0.1336	6.67e-002
922	480.5	460.5	0.4859	0.1328	6.63e-002
923	481.	461.	0.4878	0.1347	6.725e-002
924	481.5	461.5	0.4863	0.1332	6.65e-002
925	482.	462.	0.489	0.1359	6.785e-002
926	482.5	462.5	0.4852	0.1321	6.595e-002
927	483.	463.	0.4882	0.1351	6.745e-002
928	483.5	463.5	0.4872	0.1341	6.695e-002
929	484.	464.	0.4839	0.1308	6.531e-002
930	484.5	464.5	0.4842	0.1311	6.546e-002
931	485.	465.	0.4834	0.1303	6.506e-002
932	485.5	465.5	0.4872	0.1341	6.695e-002
933	486.	466.	0.4851	0.132	6.59e-002
934	486.5	466.5	0.4832	0.1301	6.496e-002
935	487.	467.	0.4882	0.1351	6.745e-002
936	487.5	467.5	0.4845	0.1314	6.56e-002

937	488.	468.	0.4821	0.129	6.441e-002
938	488.5	468.5	0.4864	0.1333	6.655e-002
939	489.	469.	0.4842	0.1311	6.546e-002
940	489.5	469.5	0.4834	0.1303	6.506e-002
941	490.	470.	0.4856	0.1325	6.615e-002
942	490.5	470.5	0.4834	0.1303	6.506e-002
943	491.	471.	0.483	0.1299	6.486e-002
944	491.5	471.5	0.4842	0.1311	6.546e-002
945	492.	472.	0.4854	0.1323	6.605e-002
946	492.5	472.5	0.4804	0.1273	6.356e-002
947	493.	473.	0.4805	0.1274	6.361e-002
948	493.5	473.5	0.4794	0.1263	6.306e-002
949	494.	474.	0.4842	0.1311	6.546e-002
950	494.5	474.5	0.4806	0.1275	6.366e-002
951	495.	475.	0.4854	0.1323	6.605e-002
952	495.5	475.5	0.4832	0.1301	6.496e-002
953	496.	476.	0.4839	0.1308	6.531e-002
954	496.5	476.5	0.4798	0.1267	6.326e-002
955	497.	477.	0.4849	0.1318	6.58e-002
956	497.5	477.5	0.4836	0.1305	6.516e-002
957	498.	478.	0.4829	0.1298	6.481e-002
958	498.5	478.5	0.4788	0.1257	6.276e-002
959	499.	479.	0.4818	0.1287	6.426e-002
960	499.5	479.5	0.483	0.1299	6.486e-002
961	500.	480.	0.4788	0.1257	6.276e-002
962	500.5	480.5	0.4804	0.1273	6.356e-002
963	501.	481.	0.4834	0.1303	6.506e-002
964	501.5	481.5	0.4857	0.1326	6.62e-002
965	502.	482.	0.4802	0.1271	6.346e-002
966	502.5	482.5	0.484	0.1309	6.536e-002
967	503.	483.	0.4797	0.1266	6.321e-002
968	503.5	483.5	0.4796	0.1265	6.316e-002
969	504.	484.	0.4843	0.1312	6.551e-002
970	504.5	484.5	0.4833	0.1302	6.501e-002
971	505.	485.	0.4798	0.1267	6.326e-002
972	505.5	485.5	0.4808	0.1277	6.376e-002
973	506.	486.	0.4839	0.1308	6.531e-002
974	506.5	486.5	0.4802	0.1271	6.346e-002
975	507.	487.	0.4816	0.1285	6.416e-002
976	507.5	487.5	0.483	0.1299	6.486e-002
977	508.	488.	0.4838	0.1307	6.526e-002
978	508.5	488.5	0.4815	0.1284	6.411e-002
979	509.	489.	0.4794	0.1263	6.306e-002
980	509.5	489.5	0.4848	0.1317	6.575e-002
981	510.	490.	0.4825	0.1294	6.461e-002
982	510.5	490.5	0.4789	0.1258	6.281e-002
983	511.	491.	0.4838	0.1307	6.526e-002
984	511.5	491.5	0.4812	0.1281	6.396e-002
985	512.	492.	0.4755	0.1224	6.111e-002
986	512.5	492.5	0.4795	0.1264	6.311e-002
987	513.	493.	0.4818	0.1287	6.426e-002
988	513.5	493.5	0.4872	0.1341	6.695e-002
989	514.	494.	0.4783	0.1252	6.251e-002
990	514.5	494.5	0.4815	0.1284	6.411e-002
991	515.	495.	0.4834	0.1303	6.506e-002
992	515.5	495.5	0.4825	0.1294	6.461e-002
993	516.	496.	0.4771	0.124	6.191e-002
994	516.5	496.5	0.4772	0.1241	6.196e-002
995	517.	497.	0.4836	0.1305	6.516e-002
996	517.5	497.5	0.4833	0.1302	6.501e-002

997	518.	498.	0.4832	0.1301	6.496e-002
998	518.5	498.5	0.4782	0.1251	6.246e-002
999	519.	499.	0.4821	0.129	6.441e-002
1000	519.5	499.5	0.4809	0.1278	6.381e-002
1001	520.	500.	0.4795	0.1264	6.311e-002
1002	520.5	500.5	0.4797	0.1266	6.321e-002
1003	521.	501.	0.4789	0.1258	6.281e-002
1004	521.5	501.5	0.4779	0.1248	6.231e-002
1005	522.	502.	0.4809	0.1278	6.381e-002
1006	522.5	502.5	0.4767	0.1236	6.171e-002
1007	523.	503.	0.4761	0.123	6.141e-002
1008	523.5	503.5	0.4795	0.1264	6.311e-002
1009	524.	504.	0.4761	0.123	6.141e-002
1010	524.5	504.5	0.4786	0.1255	6.266e-002
1011	525.	505.	0.4755	0.1224	6.111e-002
1012	525.5	505.5	0.4788	0.1257	6.276e-002
1013	526.	506.	0.477	0.1239	6.186e-002
1014	526.5	506.5	0.4765	0.1234	6.161e-002
1015	527.	507.	0.4813	0.1282	6.401e-002
1016	527.5	507.5	0.4821	0.129	6.441e-002
1017	528.	508.	0.4791	0.126	6.291e-002
1018	528.5	508.5	0.4794	0.1263	6.306e-002
1019	529.	509.	0.4813	0.1282	6.401e-002
1020	529.5	509.5	0.4773	0.1242	6.201e-002
1021	530.	510.	0.4754	0.1223	6.106e-002
1022	530.5	510.5	0.4774	0.1243	6.206e-002
1023	531.	511.	0.4786	0.1255	6.266e-002
1024	531.5	511.5	0.4761	0.123	6.141e-002
1025	532.	512.	0.4783	0.1252	6.251e-002
1026	532.5	512.5	0.4767	0.1236	6.171e-002
1027	533.	513.	0.48	0.1269	6.336e-002
1028	533.5	513.5	0.4791	0.126	6.291e-002
1029	534.	514.	0.4761	0.123	6.141e-002
1030	534.5	514.5	0.4779	0.1248	6.231e-002
1031	535.	515.	0.4797	0.1266	6.321e-002
1032	535.5	515.5	0.4776	0.1245	6.216e-002
1033	536.	516.	0.4756	0.1225	6.116e-002
1034	536.5	516.5	0.4815	0.1284	6.411e-002
1035	537.	517.	0.4802	0.1271	6.346e-002
1036	537.5	517.5	0.4743	0.1212	6.051e-002
1037	538.	518.	0.477	0.1239	6.186e-002
1038	538.5	518.5	0.4782	0.1251	6.246e-002
1039	539.	519.	0.477	0.1239	6.186e-002
1040	539.5	519.5	0.4732	0.1201	5.996e-002
1041	540.	520.	0.4728	0.1197	5.976e-002
1042	540.5	520.5	0.4761	0.123	6.141e-002
1043	541.	521.	0.4784	0.1253	6.256e-002
1044	541.5	521.5	0.4777	0.1246	6.221e-002
1045	542.	522.	0.4755	0.1224	6.111e-002
1046	542.5	522.5	0.4768	0.1237	6.176e-002
1047	543.	523.	0.4737	0.1206	6.021e-002
1048	543.5	523.5	0.4745	0.1214	6.061e-002
1049	544.	524.	0.4767	0.1236	6.171e-002
1050	544.5	524.5	0.4791	0.126	6.291e-002
1051	545.	525.	0.4738	0.1207	6.026e-002
1052	545.5	525.5	0.4789	0.1258	6.281e-002
1053	546.	526.	0.472	0.1189	5.936e-002
1054	546.5	526.5	0.4698	0.1167	5.827e-002
1055	547.	527.	0.475	0.1219	6.086e-002
1056	547.5	527.5	0.4788	0.1257	6.276e-002

1057	548.	528.	0.4749	0.1218	6.081e-002
1058	548.5	528.5	0.4767	0.1236	6.171e-002
1059	549.	529.	0.4721	0.119	5.941e-002
1060	549.5	529.5	0.4693	0.1162	5.802e-002
1061	550.	530.	0.4682	0.1151	5.747e-002
1062	550.5	530.5	0.4721	0.119	5.941e-002
1063	551.	531.	0.4727	0.1196	5.971e-002
1064	551.5	531.5	0.4735	0.1204	6.011e-002
1065	552.	532.	0.4741	0.121	6.041e-002
1066	552.5	532.5	0.474	0.1209	6.036e-002
1067	553.	533.	0.4743	0.1212	6.051e-002
1068	553.5	533.5	0.4741	0.121	6.041e-002
1069	554.	534.	0.4728	0.1197	5.976e-002
1070	554.5	534.5	0.4708	0.1177	5.876e-002
1071	555.	535.	0.4737	0.1206	6.021e-002
1072	555.5	535.5	0.4703	0.1172	5.852e-002
1073	556.	536.	0.4699	0.1168	5.832e-002
1074	556.5	536.5	0.4741	0.121	6.041e-002
1075	557.	537.	0.4746	0.1215	6.066e-002
1076	557.5	537.5	0.4756	0.1225	6.116e-002
1077	558.	538.	0.4702	0.1171	5.847e-002
1078	558.5	538.5	0.4741	0.121	6.041e-002
1079	559.	539.	0.4722	0.1191	5.946e-002
1080	559.5	539.5	0.4775	0.1244	6.211e-002
1081	560.	540.	0.4725	0.1194	5.961e-002
1082	560.5	540.5	0.4734	0.1203	6.006e-002
1083	561.	541.	0.4685	0.1154	5.762e-002
1084	561.5	541.5	0.471	0.1179	5.886e-002
1085	562.	542.	0.4717	0.1186	5.921e-002
1086	562.5	542.5	0.4692	0.1161	5.797e-002
1087	563.	543.	0.4768	0.1237	6.176e-002
1088	563.5	543.5	0.471	0.1179	5.886e-002
1089	564.	544.	0.4732	0.1201	5.996e-002
1090	564.5	544.5	0.4746	0.1215	6.066e-002
1091	565.	545.	0.4679	0.1148	5.732e-002
1092	565.5	545.5	0.469	0.1159	5.787e-002
1093	566.	546.	0.4768	0.1237	6.176e-002
1094	566.5	546.5	0.4698	0.1167	5.827e-002
1095	567.	547.	0.4715	0.1184	5.911e-002
1096	567.5	547.5	0.4697	0.1166	5.822e-002
1097	568.	548.	0.4703	0.1172	5.852e-002
1098	568.5	548.5	0.4743	0.1212	6.051e-002
1099	569.	549.	0.4719	0.1188	5.931e-002
1100	569.5	549.5	0.4722	0.1191	5.946e-002
1101	570.	550.	0.469	0.1159	5.787e-002
1102	570.5	550.5	0.4665	0.1134	5.662e-002
1103	571.	551.	0.4733	0.1202	6.001e-002
1104	571.5	551.5	0.4713	0.1182	5.901e-002
1105	572.	552.	0.4723	0.1192	5.951e-002
1106	572.5	552.5	0.47	0.1169	5.837e-002
1107	573.	553.	0.4707	0.1176	5.871e-002
1108	573.5	553.5	0.4714	0.1183	5.906e-002
1109	574.	554.	0.4663	0.1132	5.652e-002
1110	574.5	554.5	0.4665	0.1134	5.662e-002
1111	575.	555.	0.4698	0.1167	5.827e-002
1112	575.5	555.5	0.4686	0.1155	5.767e-002
1113	576.	556.	0.4653	0.1122	5.602e-002
1114	576.5	556.5	0.4701	0.117	5.842e-002
1115	577.	557.	0.4726	0.1195	5.966e-002
1116	577.5	557.5	0.475	0.1219	6.086e-002

1117	578.	558.	0.471	0.1179	5.886e-002
1118	578.5	558.5	0.4653	0.1122	5.602e-002
1119	579.	559.	0.4671	0.114	5.692e-002
1120	579.5	559.5	0.4719	0.1188	5.931e-002
1121	580.	560.	0.4695	0.1164	5.812e-002
1122	580.5	560.5	0.4685	0.1154	5.762e-002
1123	581.	561.	0.4645	0.1114	5.562e-002
1124	581.5	561.5	0.4704	0.1173	5.857e-002
1125	582.	562.	0.4704	0.1173	5.857e-002
1126	582.5	562.5	0.4698	0.1167	5.827e-002
1127	583.	563.	0.4701	0.117	5.842e-002
1128	583.5	563.5	0.466	0.1129	5.637e-002
1129	584.	564.	0.4674	0.1143	5.707e-002
1130	584.5	564.5	0.4658	0.1127	5.627e-002
1131	585.	565.	0.4681	0.115	5.742e-002
1132	585.5	565.5	0.4717	0.1186	5.921e-002
1133	586.	566.	0.4714	0.1183	5.906e-002
1134	586.5	566.5	0.4659	0.1128	5.632e-002
1135	587.	567.	0.4683	0.1152	5.752e-002
1136	587.5	567.5	0.466	0.1129	5.637e-002
1137	588.	568.	0.4658	0.1127	5.627e-002
1138	588.5	568.5	0.4659	0.1128	5.632e-002
1139	589.	569.	0.4663	0.1132	5.652e-002
1140	589.5	569.5	0.4651	0.112	5.592e-002
1141	590.	570.	0.4707	0.1176	5.871e-002
1142	590.5	570.5	0.4658	0.1127	5.627e-002
1143	591.	571.	0.465	0.1119	5.587e-002
1144	591.5	571.5	0.4662	0.1131	5.647e-002
1145	592.	572.	0.4668	0.1137	5.677e-002
1146	592.5	572.5	0.4612	0.1081	5.397e-002
1147	593.	573.	0.4671	0.114	5.692e-002
1148	593.5	573.5	0.4665	0.1134	5.662e-002
1149	594.	574.	0.4683	0.1152	5.752e-002
1150	594.5	574.5	0.4692	0.1161	5.797e-002
1151	595.	575.	0.469	0.1159	5.787e-002
1152	595.5	575.5	0.4674	0.1143	5.707e-002
1153	596.	576.	0.4705	0.1174	5.862e-002
1154	596.5	576.5	0.4698	0.1167	5.827e-002
1155	597.	577.	0.4642	0.1111	5.547e-002
1156	597.5	577.5	0.4689	0.1158	5.782e-002
1157	598.	578.	0.4672	0.1141	5.697e-002
1158	598.5	578.5	0.4671	0.114	5.692e-002
1159	599.	579.	0.4683	0.1152	5.752e-002
1160	599.5	579.5	0.4689	0.1158	5.782e-002
1161	600.	580.	0.4681	0.115	5.742e-002
1162	600.5	580.5	0.4696	0.1165	5.817e-002
1163	601.	581.	0.4663	0.1132	5.652e-002
1164	601.5	581.5	0.4666	0.1135	5.667e-002
1165	602.	582.	0.4655	0.1124	5.612e-002
1166	602.5	582.5	0.4651	0.112	5.592e-002
1167	603.	583.	0.4666	0.1135	5.667e-002
1168	603.5	583.5	0.4717	0.1186	5.921e-002
1169	604.	584.	0.4684	0.1153	5.757e-002
1170	604.5	584.5	0.468	0.1149	5.737e-002
1171	605.	585.	0.4641	0.111	5.542e-002
1172	605.5	585.5	0.464	0.1109	5.537e-002
1173	606.	586.	0.4628	0.1097	5.477e-002
1174	606.5	586.5	0.4665	0.1134	5.662e-002
1175	607.	587.	0.464	0.1109	5.537e-002
1176	607.5	587.5	0.4701	0.117	5.842e-002

1177	608.	588.	0.465	0.1119	5.587e-002
1178	608.5	588.5	0.4671	0.114	5.692e-002
1179	609.	589.	0.4629	0.1098	5.482e-002
1180	609.5	589.5	0.4623	0.1092	5.452e-002
1181	610.	590.	0.4634	0.1103	5.507e-002
1182	610.5	590.5	0.4672	0.1141	5.697e-002
1183	611.	591.	0.4653	0.1122	5.602e-002
1184	611.5	591.5	0.4625	0.1094	5.462e-002
1185	612.	592.	0.4645	0.1114	5.562e-002
1186	612.5	592.5	0.4659	0.1128	5.632e-002
1187	613.	593.	0.4653	0.1122	5.602e-002
1188	613.5	593.5	0.4659	0.1128	5.632e-002
1189	614.	594.	0.4628	0.1097	5.477e-002
1190	614.5	594.5	0.4645	0.1114	5.562e-002
1191	615.	595.	0.4617	0.1086	5.422e-002
1192	615.5	595.5	0.4594	0.1063	5.307e-002
1193	616.	596.	0.4663	0.1132	5.652e-002
1194	616.5	596.5	0.4628	0.1097	5.477e-002
1195	617.	597.	0.4634	0.1103	5.507e-002
1196	617.5	597.5	0.4662	0.1131	5.647e-002
1197	618.	598.	0.4671	0.114	5.692e-002
1198	618.5	598.5	0.4644	0.1113	5.557e-002
1199	619.	599.	0.4651	0.112	5.592e-002
1200	619.5	599.5	0.463	0.1099	5.487e-002
1201	620.	600.	0.4657	0.1126	5.622e-002
1202	620.5	600.5	0.4659	0.1128	5.632e-002
1203	621.	601.	0.4609	0.1078	5.382e-002
1204	621.5	601.5	0.4611	0.108	5.392e-002
1205	622.	602.	0.4656	0.1125	5.617e-002
1206	622.5	602.5	0.4592	0.1061	5.297e-002
1207	623.	603.	0.4665	0.1134	5.662e-002
1208	623.5	603.5	0.4647	0.1116	5.572e-002
1209	624.	604.	0.4671	0.114	5.692e-002
1210	624.5	604.5	0.4659	0.1128	5.632e-002
1211	625.	605.	0.4606	0.1075	5.367e-002
1212	625.5	605.5	0.4651	0.112	5.592e-002
1213	626.	606.	0.4594	0.1063	5.307e-002
1214	626.5	606.5	0.4666	0.1135	5.667e-002
1215	627.	607.	0.4642	0.1111	5.547e-002
1216	627.5	607.5	0.4618	0.1087	5.427e-002
1217	628.	608.	0.4625	0.1094	5.462e-002
1218	628.5	608.5	0.4653	0.1122	5.602e-002
1219	629.	609.	0.4633	0.1102	5.502e-002
1220	629.5	609.5	0.4584	0.1053	5.257e-002
1221	630.	610.	0.4608	0.1077	5.377e-002
1222	630.5	610.5	0.4635	0.1104	5.512e-002
1223	631.	611.	0.4576	0.1045	5.217e-002
1224	631.5	611.5	0.4644	0.1113	5.557e-002
1225	632.	612.	0.4582	0.1051	5.247e-002
1226	632.5	612.5	0.4594	0.1063	5.307e-002
1227	633.	613.	0.4621	0.109	5.442e-002
1228	633.5	613.5	0.4647	0.1116	5.572e-002
1229	634.	614.	0.4626	0.1095	5.467e-002
1230	634.5	614.5	0.4611	0.108	5.392e-002
1231	635.	615.	0.4621	0.109	5.442e-002
1232	635.5	615.5	0.4596	0.1065	5.317e-002
1233	636.	616.	0.4626	0.1095	5.467e-002
1234	636.5	616.5	0.459	0.1059	5.287e-002
1235	637.	617.	0.4606	0.1075	5.367e-002
1236	637.5	617.5	0.4578	0.1047	5.227e-002

1237	638.	618.	0.4633	0.1102	5.502e-002
1238	638.5	618.5	0.4596	0.1065	5.317e-002
1239	639.	619.	0.4621	0.109	5.442e-002
1240	639.5	619.5	0.4625	0.1094	5.462e-002
1241	640.	620.	0.4625	0.1094	5.462e-002
1242	640.5	620.5	0.457	0.1039	5.187e-002
1243	641.	621.	0.4608	0.1077	5.377e-002
1244	641.5	621.5	0.468	0.1149	5.737e-002
1245	642.	622.	0.4647	0.1116	5.572e-002
1246	642.5	622.5	0.462	0.1089	5.437e-002
1247	643.	623.	0.4662	0.1131	5.647e-002
1248	643.5	623.5	0.4602	0.1071	5.347e-002
1249	644.	624.	0.4653	0.1122	5.602e-002
1250	644.5	624.5	0.4662	0.1131	5.647e-002
1251	645.	625.	0.4662	0.1131	5.647e-002
1252	645.5	625.5	0.46	0.1069	5.337e-002
1253	646.	626.	0.4611	0.108	5.392e-002
1254	646.5	626.5	0.4611	0.108	5.392e-002
1255	647.	627.	0.4597	0.1066	5.322e-002
1256	647.5	627.5	0.456	0.1029	5.138e-002
1257	648.	628.	0.4606	0.1075	5.367e-002
1258	648.5	628.5	0.4608	0.1077	5.377e-002
1259	649.	629.	0.4602	0.1071	5.347e-002
1260	649.5	629.5	0.462	0.1089	5.437e-002
1261	650.	630.	0.4645	0.1114	5.562e-002
1262	650.5	630.5	0.4599	0.1068	5.332e-002
1263	651.	631.	0.4579	0.1048	5.232e-002
1264	651.5	631.5	0.4602	0.1071	5.347e-002
1265	652.	632.	0.4612	0.1081	5.397e-002
1266	652.5	632.5	0.4588	0.1057	5.277e-002
1267	653.	633.	0.4597	0.1066	5.322e-002
1268	653.5	633.5	0.4642	0.1111	5.547e-002
1269	654.	634.	0.459	0.1059	5.287e-002
1270	654.5	634.5	0.4603	0.1072	5.352e-002
1271	655.	635.	0.4596	0.1065	5.317e-002
1272	655.5	635.5	0.4563	0.1032	5.153e-002
1273	656.	636.	0.456	0.1029	5.138e-002
1274	656.5	636.5	0.4588	0.1057	5.277e-002
1275	657.	637.	0.4584	0.1053	5.257e-002
1276	657.5	637.5	0.4528	9.97e-002	4.978e-002
1277	658.	638.	0.4582	0.1051	5.247e-002
1278	658.5	638.5	0.4582	0.1051	5.247e-002
1279	659.	639.	0.4611	0.108	5.392e-002
1280	659.5	639.5	0.4566	0.1035	5.168e-002
1281	660.	640.	0.4614	0.1083	5.407e-002
1282	660.5	640.5	0.4587	0.1056	5.272e-002
1283	661.	641.	0.4624	0.1093	5.457e-002
1284	661.5	641.5	0.4603	0.1072	5.352e-002
1285	662.	642.	0.4555	0.1024	5.113e-002
1286	662.5	642.5	0.4557	0.1026	5.123e-002
1287	663.	643.	0.459	0.1059	5.287e-002
1288	663.5	643.5	0.4587	0.1056	5.272e-002
1289	664.	644.	0.4575	0.1044	5.212e-002
1290	664.5	644.5	0.4546	0.1015	5.068e-002
1291	665.	645.	0.4569	0.1038	5.182e-002
1292	665.5	645.5	0.4546	0.1015	5.068e-002
1293	666.	646.	0.4579	0.1048	5.232e-002
1294	666.5	646.5	0.4555	0.1024	5.113e-002
1295	667.	647.	0.4578	0.1047	5.227e-002
1296	667.5	647.5	0.4572	0.1041	5.197e-002

1297	668.	648.	0.4582	0.1051	5.247e-002
1298	668.5	648.5	0.4593	0.1062	5.302e-002
1299	669.	649.	0.4587	0.1056	5.272e-002
1300	669.5	649.5	0.4587	0.1056	5.272e-002
1301	670.	650.	0.4594	0.1063	5.307e-002
1302	670.5	650.5	0.456	0.1029	5.138e-002
1303	671.	651.	0.4602	0.1071	5.347e-002
1304	671.5	651.5	0.4543	0.1012	5.053e-002
1305	672.	652.	0.454	0.1009	5.038e-002
1306	672.5	652.5	0.4564	0.1033	5.158e-002
1307	673.	653.	0.4587	0.1056	5.272e-002
1308	673.5	653.5	0.4557	0.1026	5.123e-002
1309	674.	654.	0.453	9.99e-002	4.988e-002
1310	674.5	654.5	0.4585	0.1054	5.262e-002
1311	675.	655.	0.4566	0.1035	5.168e-002
1312	675.5	655.5	0.4558	0.1027	5.128e-002
1313	676.	656.	0.454	0.1009	5.038e-002
1314	676.5	656.5	0.4593	0.1062	5.302e-002
1315	677.	657.	0.4611	0.108	5.392e-002
1316	677.5	657.5	0.4555	0.1024	5.113e-002
1317	678.	658.	0.4594	0.1063	5.307e-002
1318	678.5	658.5	0.4527	9.96e-002	4.973e-002
1319	679.	659.	0.4539	0.1008	5.033e-002
1320	679.5	659.5	0.454	0.1009	5.038e-002
1321	680.	660.	0.4593	0.1062	5.302e-002
1322	680.5	660.5	0.4554	0.1023	5.108e-002
1323	681.	661.	0.4527	9.96e-002	4.973e-002
1324	681.5	661.5	0.4587	0.1056	5.272e-002
1325	682.	662.	0.4567	0.1036	5.172e-002
1326	682.5	662.5	0.4539	0.1008	5.033e-002
1327	683.	663.	0.4554	0.1023	5.108e-002
1328	683.5	663.5	0.4516	9.85e-002	4.918e-002
1329	684.	664.	0.4533	0.1002	5.003e-002
1330	684.5	664.5	0.4543	0.1012	5.053e-002
1331	685.	665.	0.4491	9.6e-002	4.793e-002
1332	685.5	665.5	0.4542	0.1011	5.048e-002
1333	686.	666.	0.4597	0.1066	5.322e-002
1334	686.5	666.5	0.4519	9.88e-002	4.933e-002
1335	687.	667.	0.4555	0.1024	5.113e-002
1336	687.5	667.5	0.4537	0.1006	5.023e-002
1337	688.	668.	0.454	0.1009	5.038e-002
1338	688.5	668.5	0.4557	0.1026	5.123e-002
1339	689.	669.	0.4534	0.1003	5.008e-002
1340	689.5	669.5	0.4548	0.1017	5.078e-002
1341	690.	670.	0.4531	1.e-001	4.993e-002
1342	690.5	670.5	0.454	0.1009	5.038e-002
1343	691.	671.	0.4518	9.87e-002	4.928e-002
1344	691.5	671.5	0.4507	9.76e-002	4.873e-002
1345	692.	672.	0.4522	9.91e-002	4.948e-002
1346	692.5	672.5	0.4507	9.76e-002	4.873e-002
1347	693.	673.	0.4521	9.9e-002	4.943e-002
1348	693.5	673.5	0.4561	0.103	5.143e-002
1349	694.	674.	0.4522	9.91e-002	4.948e-002
1350	694.5	674.5	0.4563	0.1032	5.153e-002
1351	695.	675.	0.4582	0.1051	5.247e-002
1352	695.5	675.5	0.4545	0.1014	5.063e-002
1353	696.	676.	0.4587	0.1056	5.272e-002
1354	696.5	676.5	0.4495	9.64e-002	4.813e-002
1355	697.	677.	0.4522	9.91e-002	4.948e-002
1356	697.5	677.5	0.4486	9.55e-002	4.768e-002

1357	698.	678.	0.4536	0.1005	5.018e-002
1358	698.5	678.5	0.4521	9.9e-002	4.943e-002
1359	699.	679.	0.4504	9.73e-002	4.858e-002
1360	699.5	679.5	0.4528	9.97e-002	4.978e-002
1361	700.	680.	0.4536	0.1005	5.018e-002
1362	700.5	680.5	0.4536	0.1005	5.018e-002
1363	701.	681.	0.4504	9.73e-002	4.858e-002
1364	701.5	681.5	0.4516	9.85e-002	4.918e-002
1365	702.	682.	0.4509	9.78e-002	4.883e-002
1366	702.5	682.5	0.4521	9.9e-002	4.943e-002
1367	703.	683.	0.4525	9.94e-002	4.963e-002
1368	703.5	683.5	0.4515	9.84e-002	4.913e-002
1369	704.	684.	0.4533	0.1002	5.003e-002
1370	704.5	684.5	0.4506	9.75e-002	4.868e-002
1371	705.	685.	0.4503	9.72e-002	4.853e-002
1372	705.5	685.5	0.4533	0.1002	5.003e-002
1373	706.	686.	0.4479	9.48e-002	4.733e-002
1374	706.5	686.5	0.4501	9.7e-002	4.843e-002
1375	707.	687.	0.4495	9.64e-002	4.813e-002
1376	707.5	687.5	0.454	0.1009	5.038e-002
1377	708.	688.	0.4501	9.7e-002	4.843e-002
1378	708.5	688.5	0.4519	9.88e-002	4.933e-002
1379	709.	689.	0.4489	9.58e-002	4.783e-002
1380	709.5	689.5	0.4489	9.58e-002	4.783e-002
1381	710.	690.	0.4512	9.81e-002	4.898e-002
1382	710.5	690.5	0.4491	9.6e-002	4.793e-002
1383	711.	691.	0.4525	9.94e-002	4.963e-002
1384	711.5	691.5	0.4497	9.66e-002	4.823e-002
1385	712.	692.	0.4527	9.96e-002	4.973e-002
1386	712.5	692.5	0.4528	9.97e-002	4.978e-002
1387	713.	693.	0.4479	9.48e-002	4.733e-002
1388	713.5	693.5	0.4497	9.66e-002	4.823e-002
1389	714.	694.	0.4516	9.85e-002	4.918e-002
1390	714.5	694.5	0.4524	9.93e-002	4.958e-002
1391	715.	695.	0.4548	0.1017	5.078e-002
1392	715.5	695.5	0.4486	9.55e-002	4.768e-002
1393	716.	696.	0.4513	9.82e-002	4.903e-002
1394	716.5	696.5	0.4525	9.94e-002	4.963e-002
1395	717.	697.	0.451	9.79e-002	4.888e-002
1396	717.5	697.5	0.4489	9.58e-002	4.783e-002
1397	718.	698.	0.4483	9.52e-002	4.753e-002
1398	718.5	698.5	0.4483	9.52e-002	4.753e-002
1399	719.	699.	0.4531	1.e-001	4.993e-002
1400	719.5	699.5	0.4507	9.76e-002	4.873e-002
1401	720.	700.	0.448	9.49e-002	4.738e-002
1402	720.5	700.5	0.45	9.69e-002	4.838e-002
1403	721.	701.	0.4524	9.93e-002	4.958e-002
1404	721.5	701.5	0.4501	9.7e-002	4.843e-002
1405	722.	702.	0.4528	9.97e-002	4.978e-002
1406	722.5	702.5	0.45	9.69e-002	4.838e-002
1407	723.	703.	0.4497	9.66e-002	4.823e-002
1408	723.5	703.5	0.4516	9.85e-002	4.918e-002
1409	724.	704.	0.4495	9.64e-002	4.813e-002
1410	724.5	704.5	0.447	9.39e-002	4.688e-002
1411	725.	705.	0.4515	9.84e-002	4.913e-002
1412	725.5	705.5	0.45	9.69e-002	4.838e-002
1413	726.	706.	0.4476	9.45e-002	4.718e-002
1414	726.5	706.5	0.4519	9.88e-002	4.933e-002
1415	727.	707.	0.4486	9.55e-002	4.768e-002
1416	727.5	707.5	0.4534	0.1003	5.008e-002

1417	728.	708.	0.4497	9.66e-002	4.823e-002
1418	728.5	708.5	0.4479	9.48e-002	4.733e-002
1419	729.	709.	0.4462	9.31e-002	4.648e-002
1420	729.5	709.5	0.4498	9.67e-002	4.828e-002
1421	730.	710.	0.4497	9.66e-002	4.823e-002
1422	730.5	710.5	0.4486	9.55e-002	4.768e-002
1423	731.	711.	0.4491	9.6e-002	4.793e-002
1424	731.5	711.5	0.4489	9.58e-002	4.783e-002
1425	732.	712.	0.4468	9.37e-002	4.678e-002
1426	732.5	712.5	0.4477	9.46e-002	4.723e-002
1427	733.	713.	0.4509	9.78e-002	4.883e-002
1428	733.5	713.5	0.4471	9.4e-002	4.693e-002
1429	734.	714.	0.4467	9.36e-002	4.673e-002
1430	734.5	714.5	0.4512	9.81e-002	4.898e-002
1431	735.	715.	0.4446	9.15e-002	4.568e-002
1432	735.5	715.5	0.4471	9.4e-002	4.693e-002
1433	736.	716.	0.445	9.19e-002	4.588e-002
1434	736.5	716.5	0.4444	9.13e-002	4.558e-002
1435	737.	717.	0.4459	9.28e-002	4.633e-002
1436	737.5	717.5	0.4507	9.76e-002	4.873e-002
1437	738.	718.	0.4456	9.25e-002	4.618e-002
1438	738.5	718.5	0.4429	8.98e-002	4.483e-002
1439	739.	719.	0.4498	9.67e-002	4.828e-002
1440	739.5	719.5	0.4489	9.58e-002	4.783e-002
1441	740.	720.	0.4492	9.61e-002	4.798e-002
1442	740.5	720.5	0.4488	9.57e-002	4.778e-002
1443	741.	721.	0.4462	9.31e-002	4.648e-002
1444	741.5	721.5	0.4491	9.6e-002	4.793e-002
1445	742.	722.	0.4468	9.37e-002	4.678e-002
1446	742.5	722.5	0.4471	9.4e-002	4.693e-002
1447	743.	723.	0.4494	9.63e-002	4.808e-002
1448	743.5	723.5	0.4462	9.31e-002	4.648e-002
1449	744.	724.	0.448	9.49e-002	4.738e-002
1450	744.5	724.5	0.4465	9.34e-002	4.663e-002
1451	745.	725.	0.4461	9.3e-002	4.643e-002
1452	745.5	725.5	0.4449	9.18e-002	4.583e-002
1453	746.	726.	0.4482	9.51e-002	4.748e-002
1454	746.5	726.5	0.4468	9.37e-002	4.678e-002
1455	747.	727.	0.4501	9.7e-002	4.843e-002
1456	747.5	727.5	0.4441	9.1e-002	4.543e-002
1457	748.	728.	0.4495	9.64e-002	4.813e-002
1458	748.5	728.5	0.4504	9.73e-002	4.858e-002
1459	749.	729.	0.4452	9.21e-002	4.598e-002
1460	749.5	729.5	0.4455	9.24e-002	4.613e-002
1461	750.	730.	0.4476	9.45e-002	4.718e-002
1462	750.5	730.5	0.4456	9.25e-002	4.618e-002
1463	751.	731.	0.4465	9.34e-002	4.663e-002
1464	751.5	731.5	0.4476	9.45e-002	4.718e-002
1465	752.	732.	0.4461	9.3e-002	4.643e-002
1466	752.5	732.5	0.4453	9.22e-002	4.603e-002
1467	753.	733.	0.4459	9.28e-002	4.633e-002
1468	753.5	733.5	0.4471	9.4e-002	4.693e-002
1469	754.	734.	0.4464	9.33e-002	4.658e-002
1470	754.5	734.5	0.4452	9.21e-002	4.598e-002
1471	755.	735.	0.4452	9.21e-002	4.598e-002
1472	755.5	735.5	0.4474	9.43e-002	4.708e-002
1473	756.	736.	0.4471	9.4e-002	4.693e-002
1474	756.5	736.5	0.4425	8.94e-002	4.464e-002
1475	757.	737.	0.4459	9.28e-002	4.633e-002
1476	757.5	737.5	0.4476	9.45e-002	4.718e-002

1477	758.	738.	0.4471	9.4e-002	4.693e-002
1478	758.5	738.5	0.4471	9.4e-002	4.693e-002
1479	759.	739.	0.4474	9.43e-002	4.708e-002
1480	759.5	739.5	0.4455	9.24e-002	4.613e-002
1481	760.	740.	0.4443	9.12e-002	4.553e-002
1482	760.5	740.5	0.4459	9.28e-002	4.633e-002
1483	761.	741.	0.45	9.69e-002	4.838e-002
1484	761.5	741.5	0.4458	9.27e-002	4.628e-002
1485	762.	742.	0.4486	9.55e-002	4.768e-002
1486	762.5	742.5	0.4471	9.4e-002	4.693e-002
1487	763.	743.	0.4461	9.3e-002	4.643e-002
1488	763.5	743.5	0.445	9.19e-002	4.588e-002
1489	764.	744.	0.4447	9.16e-002	4.573e-002
1490	764.5	744.5	0.4441	9.1e-002	4.543e-002
1491	765.	745.	0.4434	9.03e-002	4.508e-002
1492	765.5	745.5	0.4464	9.33e-002	4.658e-002
1493	766.	746.	0.4435	9.04e-002	4.513e-002
1494	766.5	746.5	0.4476	9.45e-002	4.718e-002
1495	767.	747.	0.4455	9.24e-002	4.613e-002
1496	767.5	747.5	0.4483	9.52e-002	4.753e-002
1497	768.	748.	0.4441	9.1e-002	4.543e-002
1498	768.5	748.5	0.4444	9.13e-002	4.558e-002
1499	769.	749.	0.4467	9.36e-002	4.673e-002
1500	769.5	749.5	0.4455	9.24e-002	4.613e-002
1501	770.	750.	0.4438	9.07e-002	4.528e-002
1502	770.5	750.5	0.4432	9.01e-002	4.498e-002
1503	771.	751.	0.4441	9.1e-002	4.543e-002
1504	771.5	751.5	0.4402	8.71e-002	4.349e-002
1505	772.	752.	0.4429	8.98e-002	4.483e-002
1506	772.5	752.5	0.4443	9.12e-002	4.553e-002
1507	773.	753.	0.4485	9.54e-002	4.763e-002
1508	773.5	753.5	0.4417	8.86e-002	4.424e-002
1509	774.	754.	0.4444	9.13e-002	4.558e-002
1510	774.5	754.5	0.4441	9.1e-002	4.543e-002
1511	775.	755.	0.4422	8.91e-002	4.449e-002
1512	775.5	755.5	0.4446	9.15e-002	4.568e-002
1513	776.	756.	0.4444	9.13e-002	4.558e-002
1514	776.5	756.5	0.4422	8.91e-002	4.449e-002
1515	777.	757.	0.4435	9.04e-002	4.513e-002
1516	777.5	757.5	0.4456	9.25e-002	4.618e-002
1517	778.	758.	0.442	8.89e-002	4.439e-002
1518	778.5	758.5	0.4444	9.13e-002	4.558e-002
1519	779.	759.	0.4417	8.86e-002	4.424e-002
1520	779.5	759.5	0.4404	8.73e-002	4.359e-002
1521	780.	760.	0.4434	9.03e-002	4.508e-002
1522	780.5	760.5	0.4419	8.88e-002	4.434e-002
1523	781.	761.	0.4453	9.22e-002	4.603e-002
1524	781.5	761.5	0.4459	9.28e-002	4.633e-002
1525	782.	762.	0.4408	8.77e-002	4.379e-002
1526	782.5	762.5	0.4425	8.94e-002	4.464e-002
1527	783.	763.	0.4416	8.85e-002	4.419e-002
1528	783.5	763.5	0.4441	9.1e-002	4.543e-002
1529	784.	764.	0.444	9.09e-002	4.538e-002
1530	784.5	764.5	0.4402	8.71e-002	4.349e-002
1531	785.	765.	0.4473	9.42e-002	4.703e-002
1532	785.5	765.5	0.4417	8.86e-002	4.424e-002
1533	786.	766.	0.4405	8.74e-002	4.364e-002
1534	786.5	766.5	0.4405	8.74e-002	4.364e-002
1535	787.	767.	0.4423	8.92e-002	4.454e-002
1536	787.5	767.5	0.444	9.09e-002	4.538e-002

1537	788.	768.	0.4426	8.95e-002	4.469e-002
1538	788.5	768.5	0.4393	8.62e-002	4.304e-002
1539	789.	769.	0.4467	9.36e-002	4.673e-002
1540	789.5	769.5	0.4413	8.82e-002	4.404e-002
1541	790.	770.	0.4408	8.77e-002	4.379e-002
1542	790.5	770.5	0.4471	9.4e-002	4.693e-002
1543	791.	771.	0.4441	9.1e-002	4.543e-002
1544	791.5	771.5	0.4452	9.21e-002	4.598e-002
1545	792.	772.	0.4396	8.65e-002	4.319e-002
1546	792.5	772.5	0.4423	8.92e-002	4.454e-002
1547	793.	773.	0.4416	8.85e-002	4.419e-002
1548	793.5	773.5	0.4407	8.76e-002	4.374e-002
1549	794.	774.	0.441	8.79e-002	4.389e-002
1550	794.5	774.5	0.4414	8.83e-002	4.409e-002
1551	795.	775.	0.4465	9.34e-002	4.663e-002
1552	795.5	775.5	0.4423	8.92e-002	4.454e-002
1553	796.	776.	0.4411	8.8e-002	4.394e-002
1554	796.5	776.5	0.4413	8.82e-002	4.404e-002
1555	797.	777.	0.4407	8.76e-002	4.374e-002
1556	797.5	777.5	0.441	8.79e-002	4.389e-002
1557	798.	778.	0.4384	8.53e-002	4.259e-002
1558	798.5	778.5	0.442	8.89e-002	4.439e-002
1559	799.	779.	0.4392	8.61e-002	4.299e-002
1560	799.5	779.5	0.4402	8.71e-002	4.349e-002
1561	800.	780.	0.441	8.79e-002	4.389e-002
1562	800.5	780.5	0.441	8.79e-002	4.389e-002
1563	801.	781.	0.4398	8.67e-002	4.329e-002
1564	801.5	781.5	0.4438	9.07e-002	4.528e-002
1565	802.	782.	0.4413	8.82e-002	4.404e-002
1566	802.5	782.5	0.4426	8.95e-002	4.469e-002
1567	803.	783.	0.4389	8.58e-002	4.284e-002
1568	803.5	783.5	0.4429	8.98e-002	4.483e-002
1569	804.	784.	0.441	8.79e-002	4.389e-002
1570	804.5	784.5	0.4416	8.85e-002	4.419e-002
1571	805.	785.	0.4419	8.88e-002	4.434e-002
1572	805.5	785.5	0.4476	9.45e-002	4.718e-002
1573	806.	786.	0.4407	8.76e-002	4.374e-002
1574	806.5	786.5	0.4408	8.77e-002	4.379e-002
1575	807.	787.	0.4398	8.67e-002	4.329e-002
1576	807.5	787.5	0.4348	8.17e-002	4.079e-002
1577	808.	788.	0.4411	8.8e-002	4.394e-002
1578	808.5	788.5	0.4405	8.74e-002	4.364e-002
1579	809.	789.	0.444	9.09e-002	4.538e-002
1580	809.5	789.5	0.4422	8.91e-002	4.449e-002
1581	810.	790.	0.4431	9.e-002	4.493e-002
1582	810.5	790.5	0.4396	8.65e-002	4.319e-002
1583	811.	791.	0.4422	8.91e-002	4.449e-002
1584	811.5	791.5	0.4413	8.82e-002	4.404e-002
1585	812.	792.	0.4378	8.47e-002	4.229e-002
1586	812.5	792.5	0.4414	8.83e-002	4.409e-002
1587	813.	793.	0.441	8.79e-002	4.389e-002
1588	813.5	793.5	0.4392	8.61e-002	4.299e-002
1589	814.	794.	0.4419	8.88e-002	4.434e-002
1590	814.5	794.5	0.4408	8.77e-002	4.379e-002
1591	815.	795.	0.4387	8.56e-002	4.274e-002
1592	815.5	795.5	0.4383	8.52e-002	4.254e-002
1593	816.	796.	0.4393	8.62e-002	4.304e-002
1594	816.5	796.5	0.4366	8.35e-002	4.169e-002
1595	817.	797.	0.4386	8.55e-002	4.269e-002
1596	817.5	797.5	0.4426	8.95e-002	4.469e-002

1597	818.	798.	0.4392	8.61e-002	4.299e-002
1598	818.5	798.5	0.4396	8.65e-002	4.319e-002
1599	819.	799.	0.4375	8.44e-002	4.214e-002
1600	819.5	799.5	0.4351	8.2e-002	4.094e-002
1601	820.	800.	0.4372	8.41e-002	4.199e-002
1602	820.5	800.5	0.4399	8.68e-002	4.334e-002
1603	821.	801.	0.4368	8.37e-002	4.179e-002
1604	821.5	801.5	0.4411	8.8e-002	4.394e-002
1605	822.	802.	0.4371	8.4e-002	4.194e-002
1606	822.5	802.5	0.4365	8.34e-002	4.164e-002
1607	823.	803.	0.4378	8.47e-002	4.229e-002
1608	823.5	803.5	0.4389	8.58e-002	4.284e-002
1609	824.	804.	0.4366	8.35e-002	4.169e-002
1610	824.5	804.5	0.4381	8.5e-002	4.244e-002
1611	825.	805.	0.4408	8.77e-002	4.379e-002
1612	825.5	805.5	0.4378	8.47e-002	4.229e-002
1613	826.	806.	0.4357	8.26e-002	4.124e-002
1614	826.5	806.5	0.4416	8.85e-002	4.419e-002
1615	827.	807.	0.4386	8.55e-002	4.269e-002
1616	827.5	807.5	0.4389	8.58e-002	4.284e-002
1617	828.	808.	0.4386	8.55e-002	4.269e-002
1618	828.5	808.5	0.4353	8.22e-002	4.104e-002
1619	829.	809.	0.4332	8.01e-002	3.999e-002
1620	829.5	809.5	0.438	8.49e-002	4.239e-002
1621	830.	810.	0.4365	8.34e-002	4.164e-002
1622	830.5	810.5	0.4375	8.44e-002	4.214e-002
1623	831.	811.	0.4387	8.56e-002	4.274e-002
1624	831.5	811.5	0.4378	8.47e-002	4.229e-002
1625	832.	812.	0.4354	8.23e-002	4.109e-002
1626	832.5	812.5	0.4359	8.28e-002	4.134e-002
1627	833.	813.	0.4374	8.43e-002	4.209e-002
1628	833.5	813.5	0.4377	8.46e-002	4.224e-002
1629	834.	814.	0.4345	8.14e-002	4.064e-002
1630	834.5	814.5	0.4381	8.5e-002	4.244e-002
1631	835.	815.	0.4365	8.34e-002	4.164e-002
1632	835.5	815.5	0.4342	8.11e-002	4.049e-002
1633	836.	816.	0.4338	8.07e-002	4.029e-002
1634	836.5	816.5	0.4435	9.04e-002	4.513e-002
1635	837.	817.	0.4375	8.44e-002	4.214e-002
1636	837.5	817.5	0.4356	8.25e-002	4.119e-002
1637	838.	818.	0.4401	8.7e-002	4.344e-002
1638	838.5	818.5	0.4363	8.32e-002	4.154e-002
1639	839.	819.	0.4348	8.17e-002	4.079e-002
1640	839.5	819.5	0.4309	7.78e-002	3.884e-002
1641	840.	820.	0.4368	8.37e-002	4.179e-002
1642	840.5	820.5	0.4377	8.46e-002	4.224e-002
1643	841.	821.	0.4374	8.43e-002	4.209e-002
1644	841.5	821.5	0.4395	8.64e-002	4.314e-002
1645	842.	822.	0.4333	8.02e-002	4.004e-002
1646	842.5	822.5	0.4336	8.05e-002	4.019e-002
1647	843.	823.	0.4369	8.38e-002	4.184e-002
1648	843.5	823.5	0.4377	8.46e-002	4.224e-002
1649	844.	824.	0.4404	8.73e-002	4.359e-002
1650	844.5	824.5	0.4372	8.41e-002	4.199e-002
1651	845.	825.	0.4413	8.82e-002	4.404e-002
1652	845.5	825.5	0.4359	8.28e-002	4.134e-002
1653	846.	826.	0.4353	8.22e-002	4.104e-002
1654	846.5	826.5	0.4404	8.73e-002	4.359e-002
1655	847.	827.	0.4375	8.44e-002	4.214e-002
1656	847.5	827.5	0.4377	8.46e-002	4.224e-002

1657	848.	828.	0.4389	8.58e-002	4.284e-002
1658	848.5	828.5	0.4333	8.02e-002	4.004e-002
1659	849.	829.	0.4369	8.38e-002	4.184e-002
1660	849.5	829.5	0.4348	8.17e-002	4.079e-002
1661	850.	830.	0.4348	8.17e-002	4.079e-002
1662	850.5	830.5	0.4339	8.08e-002	4.034e-002
1663	851.	831.	0.4393	8.62e-002	4.304e-002
1664	851.5	831.5	0.4354	8.23e-002	4.109e-002
1665	852.	832.	0.4349	8.18e-002	4.084e-002
1666	852.5	832.5	0.4308	7.77e-002	3.879e-002
1667	853.	833.	0.4369	8.38e-002	4.184e-002
1668	853.5	833.5	0.4357	8.26e-002	4.124e-002
1669	854.	834.	0.439	8.59e-002	4.289e-002
1670	854.5	834.5	0.4365	8.34e-002	4.164e-002
1671	855.	835.	0.4335	8.04e-002	4.014e-002
1672	855.5	835.5	0.4356	8.25e-002	4.119e-002
1673	856.	836.	0.4341	8.1e-002	4.044e-002
1674	856.5	836.5	0.4363	8.32e-002	4.154e-002
1675	857.	837.	0.4338	8.07e-002	4.029e-002
1676	857.5	837.5	0.4329	7.98e-002	3.984e-002
1677	858.	838.	0.4349	8.18e-002	4.084e-002
1678	858.5	838.5	0.4345	8.14e-002	4.064e-002
1679	859.	839.	0.4322	7.91e-002	3.949e-002
1680	859.5	839.5	0.4381	8.5e-002	4.244e-002
1681	860.	840.	0.4329	7.98e-002	3.984e-002
1682	860.5	840.5	0.4353	8.22e-002	4.104e-002
1683	861.	841.	0.436	8.29e-002	4.139e-002
1684	861.5	841.5	0.4371	8.4e-002	4.194e-002
1685	862.	842.	0.4341	8.1e-002	4.044e-002
1686	862.5	842.5	0.4342	8.11e-002	4.049e-002
1687	863.	843.	0.4324	7.93e-002	3.959e-002
1688	863.5	843.5	0.4308	7.77e-002	3.879e-002
1689	864.	844.	0.4308	7.77e-002	3.879e-002
1690	864.5	844.5	0.4327	7.96e-002	3.974e-002
1691	865.	845.	0.4309	7.78e-002	3.884e-002
1692	865.5	845.5	0.4348	8.17e-002	4.079e-002
1693	866.	846.	0.4335	8.04e-002	4.014e-002
1694	866.5	846.5	0.4324	7.93e-002	3.959e-002
1695	867.	847.	0.4332	8.01e-002	3.999e-002
1696	867.5	847.5	0.4349	8.18e-002	4.084e-002
1697	868.	848.	0.4321	7.9e-002	3.944e-002
1698	868.5	848.5	0.436	8.29e-002	4.139e-002
1699	869.	849.	0.4306	7.75e-002	3.869e-002
1700	869.5	849.5	0.4362	8.31e-002	4.149e-002
1701	870.	850.	0.4309	7.78e-002	3.884e-002
1702	870.5	850.5	0.432	7.89e-002	3.939e-002
1703	871.	851.	0.4338	8.07e-002	4.029e-002
1704	871.5	851.5	0.4362	8.31e-002	4.149e-002
1705	872.	852.	0.4377	8.46e-002	4.224e-002
1706	872.5	852.5	0.4338	8.07e-002	4.029e-002
1707	873.	853.	0.4339	8.08e-002	4.034e-002
1708	873.5	853.5	0.4317	7.86e-002	3.924e-002
1709	874.	854.	0.4312	7.81e-002	3.899e-002
1710	874.5	854.5	0.4336	8.05e-002	4.019e-002
1711	875.	855.	0.4321	7.9e-002	3.944e-002
1712	875.5	855.5	0.4327	7.96e-002	3.974e-002
1713	876.	856.	0.4354	8.23e-002	4.109e-002
1714	876.5	856.5	0.4349	8.18e-002	4.084e-002
1715	877.	857.	0.4339	8.08e-002	4.034e-002
1716	877.5	857.5	0.4332	8.01e-002	3.999e-002

1717	878.	858.	0.4313	7.82e-002	3.904e-002
1718	878.5	858.5	0.4292	7.61e-002	3.799e-002
1719	879.	859.	0.4327	7.96e-002	3.974e-002
1720	879.5	859.5	0.429	7.59e-002	3.79e-002
1721	880.	860.	0.4321	7.9e-002	3.944e-002
1722	880.5	860.5	0.4318	7.87e-002	3.929e-002
1723	881.	861.	0.432	7.89e-002	3.939e-002
1724	881.5	861.5	0.4326	7.95e-002	3.969e-002
1725	882.	862.	0.4292	7.61e-002	3.799e-002
1726	882.5	862.5	0.433	7.99e-002	3.989e-002
1727	883.	863.	0.4308	7.77e-002	3.879e-002
1728	883.5	863.5	0.4311	7.8e-002	3.894e-002
1729	884.	864.	0.4322	7.91e-002	3.949e-002
1730	884.5	864.5	0.4311	7.8e-002	3.894e-002
1731	885.	865.	0.4339	8.08e-002	4.034e-002
1732	885.5	865.5	0.43	7.69e-002	3.839e-002
1733	886.	866.	0.4336	8.05e-002	4.019e-002
1734	886.5	866.5	0.4343	8.12e-002	4.054e-002
1735	887.	867.	0.4301	7.7e-002	3.844e-002
1736	887.5	867.5	0.4281	7.5e-002	3.745e-002
1737	888.	868.	0.4324	7.93e-002	3.959e-002
1738	888.5	868.5	0.4294	7.63e-002	3.809e-002
1739	889.	869.	0.4309	7.78e-002	3.884e-002
1740	889.5	869.5	0.4311	7.8e-002	3.894e-002
1741	890.	870.	0.4308	7.77e-002	3.879e-002
1742	890.5	870.5	0.4279	7.48e-002	3.735e-002
1743	891.	871.	0.4336	8.05e-002	4.019e-002
1744	891.5	871.5	0.4301	7.7e-002	3.844e-002
1745	892.	872.	0.4303	7.72e-002	3.854e-002
1746	892.5	872.5	0.4297	7.66e-002	3.824e-002
1747	893.	873.	0.4286	7.55e-002	3.77e-002
1748	893.5	873.5	0.4315	7.84e-002	3.914e-002
1749	894.	874.	0.432	7.89e-002	3.939e-002
1750	894.5	874.5	0.4294	7.63e-002	3.809e-002
1751	895.	875.	0.4332	8.01e-002	3.999e-002
1752	895.5	875.5	0.4292	7.61e-002	3.799e-002
1753	896.	876.	0.4282	7.51e-002	3.75e-002
1754	896.5	876.5	0.4324	7.93e-002	3.959e-002
1755	897.	877.	0.4282	7.51e-002	3.75e-002
1756	897.5	877.5	0.4324	7.93e-002	3.959e-002
1757	898.	878.	0.4291	7.6e-002	3.794e-002
1758	898.5	878.5	0.4303	7.72e-002	3.854e-002
1759	899.	879.	0.4339	8.08e-002	4.034e-002
1760	899.5	879.5	0.4347	8.16e-002	4.074e-002
1761	900.	880.	0.4286	7.55e-002	3.77e-002
1762	900.5	880.5	0.4285	7.54e-002	3.765e-002
1763	901.	881.	0.4308	7.77e-002	3.879e-002
1764	901.5	881.5	0.4308	7.77e-002	3.879e-002
1765	902.	882.	0.4306	7.75e-002	3.869e-002
1766	902.5	882.5	0.4303	7.72e-002	3.854e-002
1767	903.	883.	0.4343	8.12e-002	4.054e-002
1768	903.5	883.5	0.432	7.89e-002	3.939e-002
1769	904.	884.	0.4324	7.93e-002	3.959e-002
1770	904.5	884.5	0.4273	7.42e-002	3.705e-002
1771	905.	885.	0.4322	7.91e-002	3.949e-002
1772	905.5	885.5	0.4295	7.64e-002	3.814e-002
1773	906.	886.	0.4273	7.42e-002	3.705e-002
1774	906.5	886.5	0.4291	7.6e-002	3.794e-002
1775	907.	887.	0.4345	8.14e-002	4.064e-002
1776	907.5	887.5	0.4267	7.36e-002	3.675e-002

1777	908.	888.	0.427	7.39e-002	3.69e-002
1778	908.5	888.5	0.4266	7.35e-002	3.67e-002
1779	909.	889.	0.4259	7.28e-002	3.635e-002
1780	909.5	889.5	0.4317	7.86e-002	3.924e-002
1781	910.	890.	0.432	7.89e-002	3.939e-002
1782	910.5	890.5	0.4294	7.63e-002	3.809e-002
1783	911.	891.	0.4313	7.82e-002	3.904e-002
1784	911.5	891.5	0.429	7.59e-002	3.79e-002
1785	912.	892.	0.4259	7.28e-002	3.635e-002
1786	912.5	892.5	0.4267	7.36e-002	3.675e-002
1787	913.	893.	0.4276	7.45e-002	3.72e-002
1788	913.5	893.5	0.4308	7.77e-002	3.879e-002
1789	914.	894.	0.4322	7.91e-002	3.949e-002
1790	914.5	894.5	0.4286	7.55e-002	3.77e-002
1791	915.	895.	0.4282	7.51e-002	3.75e-002
1792	915.5	895.5	0.4276	7.45e-002	3.72e-002
1793	916.	896.	0.4326	7.95e-002	3.969e-002
1794	916.5	896.5	0.4313	7.82e-002	3.904e-002
1795	917.	897.	0.4283	7.52e-002	3.755e-002
1796	917.5	897.5	0.4303	7.72e-002	3.854e-002
1797	918.	898.	0.4313	7.82e-002	3.904e-002
1798	918.5	898.5	0.4262	7.31e-002	3.65e-002
1799	919.	899.	0.4317	7.86e-002	3.924e-002
1800	919.5	899.5	0.4281	7.5e-002	3.745e-002
1801	920.	900.	0.4295	7.64e-002	3.814e-002
1802	920.5	900.5	0.4338	8.07e-002	4.029e-002
1803	921.	901.	0.425	7.19e-002	3.59e-002
1804	921.5	901.5	0.4308	7.77e-002	3.879e-002
1805	922.	902.	0.4294	7.63e-002	3.809e-002
1806	922.5	902.5	0.4273	7.42e-002	3.705e-002
1807	923.	903.	0.4285	7.54e-002	3.765e-002
1808	923.5	903.5	0.4297	7.66e-002	3.824e-002
1809	924.	904.	0.4273	7.42e-002	3.705e-002
1810	924.5	904.5	0.4308	7.77e-002	3.879e-002
1811	925.	905.	0.4286	7.55e-002	3.77e-002
1812	925.5	905.5	0.4309	7.78e-002	3.884e-002
1813	926.	906.	0.425	7.19e-002	3.59e-002
1814	926.5	906.5	0.4272	7.41e-002	3.7e-002
1815	927.	907.	0.4277	7.46e-002	3.725e-002
1816	927.5	907.5	0.429	7.59e-002	3.79e-002
1817	928.	908.	0.4259	7.28e-002	3.635e-002
1818	928.5	908.5	0.4308	7.77e-002	3.879e-002
1819	929.	909.	0.4279	7.48e-002	3.735e-002
1820	929.5	909.5	0.4243	7.12e-002	3.555e-002
1821	930.	910.	0.4286	7.55e-002	3.77e-002
1822	930.5	910.5	0.4267	7.36e-002	3.675e-002
1823	931.	911.	0.4279	7.48e-002	3.735e-002
1824	931.5	911.5	0.4255	7.24e-002	3.615e-002
1825	932.	912.	0.4292	7.61e-002	3.799e-002
1826	932.5	912.5	0.4255	7.24e-002	3.615e-002
1827	933.	913.	0.4291	7.6e-002	3.794e-002
1828	933.5	913.5	0.4249	7.18e-002	3.585e-002
1829	934.	914.	0.4245	7.14e-002	3.565e-002
1830	934.5	914.5	0.4309	7.78e-002	3.884e-002
1831	935.	915.	0.4261	7.3e-002	3.645e-002
1832	935.5	915.5	0.4294	7.63e-002	3.809e-002
1833	936.	916.	0.4281	7.5e-002	3.745e-002
1834	936.5	916.5	0.4297	7.66e-002	3.824e-002
1835	937.	917.	0.4298	7.67e-002	3.829e-002
1836	937.5	917.5	0.4322	7.91e-002	3.949e-002

1837	938.	918.	0.4272	7.41e-002	3.7e-002
1838	938.5	918.5	0.4253	7.22e-002	3.605e-002
1839	939.	919.	0.4291	7.6e-002	3.794e-002
1840	939.5	919.5	0.4249	7.18e-002	3.585e-002
1841	940.	920.	0.4253	7.22e-002	3.605e-002
1842	940.5	920.5	0.4253	7.22e-002	3.605e-002
1843	941.	921.	0.4326	7.95e-002	3.969e-002
1844	941.5	921.5	0.4279	7.48e-002	3.735e-002
1845	942.	922.	0.4258	7.27e-002	3.63e-002
1846	942.5	922.5	0.4276	7.45e-002	3.72e-002
1847	943.	923.	0.4279	7.48e-002	3.735e-002
1848	943.5	923.5	0.4257	7.26e-002	3.625e-002
1849	944.	924.	0.4235	7.04e-002	3.515e-002
1850	944.5	924.5	0.4229	6.98e-002	3.485e-002
1851	945.	925.	0.4273	7.42e-002	3.705e-002
1852	945.5	925.5	0.4274	7.43e-002	3.71e-002
1853	946.	926.	0.4249	7.18e-002	3.585e-002
1854	946.5	926.5	0.4228	6.97e-002	3.48e-002
1855	947.	927.	0.4264	7.33e-002	3.66e-002
1856	947.5	927.5	0.4253	7.22e-002	3.605e-002
1857	948.	928.	0.4213	6.82e-002	3.405e-002
1858	948.5	928.5	0.4226	6.95e-002	3.47e-002
1859	949.	929.	0.4257	7.26e-002	3.625e-002
1860	949.5	929.5	0.422	6.89e-002	3.44e-002
1861	950.	930.	0.4249	7.18e-002	3.585e-002
1862	950.5	930.5	0.4262	7.31e-002	3.65e-002
1863	951.	931.	0.4241	7.1e-002	3.545e-002
1864	951.5	931.5	0.4229	6.98e-002	3.485e-002
1865	952.	932.	0.43	7.69e-002	3.839e-002
1866	952.5	932.5	0.4243	7.12e-002	3.555e-002
1867	953.	933.	0.422	6.89e-002	3.44e-002
1868	953.5	933.5	0.4245	7.14e-002	3.565e-002
1869	954.	934.	0.4258	7.27e-002	3.63e-002
1870	954.5	934.5	0.4231	7.e-002	3.495e-002
1871	955.	935.	0.4247	7.16e-002	3.575e-002
1872	955.5	935.5	0.4268	7.37e-002	3.68e-002
1873	956.	936.	0.4237	7.06e-002	3.525e-002
1874	956.5	936.5	0.4247	7.16e-002	3.575e-002
1875	957.	937.	0.4219	6.88e-002	3.435e-002
1876	957.5	937.5	0.422	6.89e-002	3.44e-002
1877	958.	938.	0.4247	7.16e-002	3.575e-002
1878	958.5	938.5	0.4205	6.74e-002	3.365e-002
1879	959.	939.	0.4292	7.61e-002	3.799e-002
1880	959.5	939.5	0.4226	6.95e-002	3.47e-002
1881	960.	940.	0.4225	6.94e-002	3.465e-002
1882	960.5	940.5	0.4247	7.16e-002	3.575e-002
1883	961.	941.	0.4264	7.33e-002	3.66e-002
1884	961.5	941.5	0.4255	7.24e-002	3.615e-002
1885	962.	942.	0.4262	7.31e-002	3.65e-002
1886	962.5	942.5	0.4237	7.06e-002	3.525e-002
1887	963.	943.	0.4268	7.37e-002	3.68e-002
1888	963.5	943.5	0.4298	7.67e-002	3.829e-002
1889	964.	944.	0.425	7.19e-002	3.59e-002
1890	964.5	944.5	0.4255	7.24e-002	3.615e-002
1891	965.	945.	0.4216	6.85e-002	3.42e-002
1892	965.5	945.5	0.4253	7.22e-002	3.605e-002
1893	966.	946.	0.4228	6.97e-002	3.48e-002
1894	966.5	946.5	0.4245	7.14e-002	3.565e-002
1895	967.	947.	0.4211	6.8e-002	3.395e-002
1896	967.5	947.5	0.4222	6.91e-002	3.45e-002

1897	968.	948.	0.4216	6.85e-002	3.42e-002
1898	968.5	948.5	0.4245	7.14e-002	3.565e-002
1899	969.	949.	0.4216	6.85e-002	3.42e-002
1900	969.5	949.5	0.4253	7.22e-002	3.605e-002
1901	970.	950.	0.425	7.19e-002	3.59e-002
1902	970.5	950.5	0.4198	6.67e-002	3.33e-002
1903	971.	951.	0.4264	7.33e-002	3.66e-002
1904	971.5	951.5	0.4229	6.98e-002	3.485e-002
1905	972.	952.	0.4277	7.46e-002	3.725e-002
1906	972.5	952.5	0.4253	7.22e-002	3.605e-002
1907	973.	953.	0.4253	7.22e-002	3.605e-002
1908	973.5	953.5	0.4213	6.82e-002	3.405e-002
1909	974.	954.	0.4228	6.97e-002	3.48e-002
1910	974.5	954.5	0.4225	6.94e-002	3.465e-002
1911	975.	955.	0.4219	6.88e-002	3.435e-002
1912	975.5	955.5	0.4213	6.82e-002	3.405e-002
1913	976.	956.	0.4231	7.e-002	3.495e-002
1914	976.5	956.5	0.4262	7.31e-002	3.65e-002
1915	977.	957.	0.4196	6.65e-002	3.32e-002
1916	977.5	957.5	0.4222	6.91e-002	3.45e-002
1917	978.	958.	0.4207	6.76e-002	3.375e-002
1918	978.5	958.5	0.419	6.59e-002	3.29e-002
1919	979.	959.	0.4239	7.08e-002	3.535e-002
1920	979.5	959.5	0.4204	6.73e-002	3.36e-002
1921	980.	960.	0.4229	6.98e-002	3.485e-002
1922	980.5	960.5	0.4246	7.15e-002	3.57e-002
1923	981.	961.	0.4216	6.85e-002	3.42e-002
1924	981.5	961.5	0.4207	6.76e-002	3.375e-002
1925	982.	962.	0.4192	6.61e-002	3.3e-002
1926	982.5	962.5	0.4259	7.28e-002	3.635e-002
1927	983.	963.	0.4223	6.92e-002	3.455e-002
1928	983.5	963.5	0.4225	6.94e-002	3.465e-002
1929	984.	964.	0.4207	6.76e-002	3.375e-002
1930	984.5	964.5	0.4214	6.83e-002	3.41e-002
1931	985.	965.	0.4232	7.01e-002	3.5e-002
1932	985.5	965.5	0.4249	7.18e-002	3.585e-002
1933	986.	966.	0.4241	7.1e-002	3.545e-002
1934	986.5	966.5	0.4223	6.92e-002	3.455e-002
1935	987.	967.	0.4239	7.08e-002	3.535e-002
1936	987.5	967.5	0.4201	6.7e-002	3.345e-002
1937	988.	968.	0.4208	6.77e-002	3.38e-002
1938	988.5	968.5	0.4193	6.62e-002	3.305e-002
1939	989.	969.	0.4193	6.62e-002	3.305e-002
1940	989.5	969.5	0.4202	6.71e-002	3.35e-002
1941	990.	970.	0.4181	6.5e-002	3.245e-002
1942	990.5	970.5	0.4228	6.97e-002	3.48e-002
1943	991.	971.	0.4192	6.61e-002	3.3e-002
1944	991.5	971.5	0.4239	7.08e-002	3.535e-002
1945	992.	972.	0.4213	6.82e-002	3.405e-002
1946	992.5	972.5	0.4211	6.8e-002	3.395e-002
1947	993.	973.	0.4201	6.7e-002	3.345e-002
1948	993.5	973.5	0.4237	7.06e-002	3.525e-002
1949	994.	974.	0.4184	6.53e-002	3.26e-002
1950	994.5	974.5	0.4177	6.46e-002	3.225e-002
1951	995.	975.	0.4211	6.8e-002	3.395e-002
1952	995.5	975.5	0.4217	6.86e-002	3.425e-002
1953	996.	976.	0.4192	6.61e-002	3.3e-002
1954	996.5	976.5	0.424	7.09e-002	3.54e-002
1955	997.	977.	0.4192	6.61e-002	3.3e-002
1956	997.5	977.5	0.4214	6.83e-002	3.41e-002

1957	998.	978.	0.4225	6.94e-002	3.465e-002
1958	998.5	978.5	0.4171	6.4e-002	3.195e-002
1959	999.	979.	0.4175	6.44e-002	3.215e-002
1960	999.5	979.5	0.4211	6.8e-002	3.395e-002
1961	1000	980.	0.4226	6.95e-002	3.47e-002
1962	1001	981.	0.4178	6.47e-002	3.23e-002
1963	1001	981.	0.4156	6.25e-002	3.12e-002
1964	1002	982.	0.4193	6.62e-002	3.305e-002
1965	1002	982.	0.4198	6.67e-002	3.33e-002
1966	1003	983.	0.4195	6.64e-002	3.315e-002
1967	1003	983.	0.4223	6.92e-002	3.455e-002
1968	1004	984.	0.4169	6.38e-002	3.185e-002
1969	1004	984.	0.4193	6.62e-002	3.305e-002
1970	1005	985.	0.4172	6.41e-002	3.2e-002
1971	1005	985.	0.4228	6.97e-002	3.48e-002
1972	1006	986.	0.4168	6.37e-002	3.18e-002
1973	1006	986.	0.4189	6.58e-002	3.285e-002
1974	1007	987.	0.4193	6.62e-002	3.305e-002
1975	1007	987.	0.4198	6.67e-002	3.33e-002
1976	1008	988.	0.4207	6.76e-002	3.375e-002
1977	1008	988.	0.4169	6.38e-002	3.185e-002
1978	1009	989.	0.4154	6.23e-002	3.11e-002
1979	1009	989.	0.418	6.49e-002	3.24e-002
1980	1010	990.	0.4223	6.92e-002	3.455e-002
1981	1010	990.	0.4199	6.68e-002	3.335e-002
1982	1011	991.	0.4168	6.37e-002	3.18e-002
1983	1011	991.	0.4166	6.35e-002	3.17e-002
1984	1012	992.	0.4228	6.97e-002	3.48e-002
1985	1012	992.	0.418	6.49e-002	3.24e-002
1986	1013	993.	0.4175	6.44e-002	3.215e-002
1987	1013	993.	0.4189	6.58e-002	3.285e-002
1988	1014	994.	0.4217	6.86e-002	3.425e-002
1989	1014	994.	0.4201	6.7e-002	3.345e-002
1990	1015	995.	0.4169	6.38e-002	3.185e-002
1991	1015	995.	0.4204	6.73e-002	3.36e-002
1992	1016	996.	0.4151	6.2e-002	3.096e-002
1993	1016	996.	0.4193	6.62e-002	3.305e-002
1994	1017	997.	0.4192	6.61e-002	3.3e-002
1995	1017	997.	0.419	6.59e-002	3.29e-002
1996	1018	998.	0.4163	6.32e-002	3.155e-002
1997	1018	998.	0.4232	7.01e-002	3.5e-002
1998	1019	999.	0.4174	6.43e-002	3.21e-002
1999	1019	999.	0.4201	6.7e-002	3.345e-002
2000	1020	1000	0.4187	6.56e-002	3.275e-002
2001	1020	1000	0.4213	6.82e-002	3.405e-002
2002	1021	1001	0.4204	6.73e-002	3.36e-002
2003	1021	1001	0.4219	6.88e-002	3.435e-002
2004	1022	1002	0.4183	6.52e-002	3.255e-002
2005	1022	1002	0.4196	6.65e-002	3.32e-002
2006	1023	1003	0.416	6.29e-002	3.14e-002
2007	1023	1003	0.4171	6.4e-002	3.195e-002
2008	1024	1004	0.4172	6.41e-002	3.2e-002
2009	1024	1004	0.4145	6.14e-002	3.066e-002
2010	1025	1005	0.418	6.49e-002	3.24e-002
2011	1025	1005	0.424	7.09e-002	3.54e-002
2012	1026	1006	0.4175	6.44e-002	3.215e-002
2013	1026	1006	0.4145	6.14e-002	3.066e-002
2014	1027	1007	0.4219	6.88e-002	3.435e-002
2015	1027	1007	0.418	6.49e-002	3.24e-002
2016	1028	1008	0.4163	6.32e-002	3.155e-002

2017	1028	1008	0.4181	6.5e-002	3.245e-002
2018	1029	1009	0.4204	6.73e-002	3.36e-002
2019	1029	1009	0.4175	6.44e-002	3.215e-002
2020	1030	1010	0.4136	6.05e-002	3.021e-002
2021	1030	1010	0.4159	6.28e-002	3.135e-002
2022	1031	1011	0.419	6.59e-002	3.29e-002
2023	1031	1011	0.4148	6.17e-002	3.081e-002
2024	1032	1012	0.4195	6.64e-002	3.315e-002
2025	1032	1012	0.4144	6.13e-002	3.061e-002
2026	1033	1013	0.4171	6.4e-002	3.195e-002
2027	1033	1013	0.4171	6.4e-002	3.195e-002
2028	1034	1014	0.4147	6.16e-002	3.076e-002
2029	1034	1014	0.4144	6.13e-002	3.061e-002
2030	1035	1015	0.4126	5.95e-002	2.971e-002
2031	1035	1015	0.4165	6.34e-002	3.165e-002
2032	1036	1016	0.4159	6.28e-002	3.135e-002
2033	1036	1016	0.4154	6.23e-002	3.11e-002
2034	1037	1017	0.4151	6.2e-002	3.096e-002
2035	1037	1017	0.4175	6.44e-002	3.215e-002
2036	1038	1018	0.4172	6.41e-002	3.2e-002
2037	1038	1018	0.416	6.29e-002	3.14e-002
2038	1039	1019	0.4168	6.37e-002	3.18e-002
2039	1039	1019	0.4168	6.37e-002	3.18e-002
2040	1040	1020	0.4162	6.31e-002	3.15e-002
2041	1040	1020	0.413	5.99e-002	2.991e-002
2042	1041	1021	0.4178	6.47e-002	3.23e-002
2043	1041	1021	0.4111	5.8e-002	2.896e-002
2044	1042	1022	0.4147	6.16e-002	3.076e-002
2045	1042	1022	0.4163	6.32e-002	3.155e-002
2046	1043	1023	0.4135	6.04e-002	3.016e-002
2047	1043	1023	0.4148	6.17e-002	3.081e-002
2048	1044	1024	0.4138	6.07e-002	3.031e-002
2049	1044	1024	0.4172	6.41e-002	3.2e-002
2050	1045	1025	0.415	6.19e-002	3.091e-002
2051	1045	1025	0.4141	6.1e-002	3.046e-002
2052	1046	1026	0.4168	6.37e-002	3.18e-002
2053	1046	1026	0.4178	6.47e-002	3.23e-002
2054	1047	1027	0.4151	6.2e-002	3.096e-002
2055	1047	1027	0.4174	6.43e-002	3.21e-002
2056	1048	1028	0.4148	6.17e-002	3.081e-002
2057	1048	1028	0.4148	6.17e-002	3.081e-002
2058	1049	1029	0.4144	6.13e-002	3.061e-002
2059	1049	1029	0.4154	6.23e-002	3.11e-002
2060	1050	1030	0.4159	6.28e-002	3.135e-002
2061	1050	1030	0.4159	6.28e-002	3.135e-002
2062	1051	1031	0.4139	6.08e-002	3.036e-002
2063	1051	1031	0.4153	6.22e-002	3.105e-002
2064	1052	1032	0.4124	5.93e-002	2.961e-002
2065	1052	1032	0.4135	6.04e-002	3.016e-002
2066	1053	1033	0.4165	6.34e-002	3.165e-002
2067	1053	1033	0.4129	5.98e-002	2.986e-002
2068	1054	1034	0.4108	5.77e-002	2.881e-002
2069	1054	1034	0.4111	5.8e-002	2.896e-002
2070	1055	1035	0.4159	6.28e-002	3.135e-002
2071	1055	1035	0.4159	6.28e-002	3.135e-002
2072	1056	1036	0.4132	6.01e-002	3.001e-002
2073	1056	1036	0.413	5.99e-002	2.991e-002
2074	1057	1037	0.4139	6.08e-002	3.036e-002
2075	1057	1037	0.4132	6.01e-002	3.001e-002
2076	1058	1038	0.4135	6.04e-002	3.016e-002

2077	1058	1038	0.415	6.19e-002	3.091e-002
2078	1059	1039	0.4159	6.28e-002	3.135e-002
2079	1059	1039	0.4178	6.47e-002	3.23e-002
2080	1060	1040	0.4136	6.05e-002	3.021e-002
2081	1060	1040	0.4138	6.07e-002	3.031e-002
2082	1061	1041	0.4183	6.52e-002	3.255e-002
2083	1061	1041	0.4129	5.98e-002	2.986e-002
2084	1062	1042	0.4163	6.32e-002	3.155e-002
2085	1062	1042	0.4139	6.08e-002	3.036e-002
2086	1063	1043	0.4174	6.43e-002	3.21e-002
2087	1063	1043	0.4144	6.13e-002	3.061e-002
2088	1064	1044	0.4151	6.2e-002	3.096e-002
2089	1064	1044	0.4145	6.14e-002	3.066e-002
2090	1065	1045	0.4124	5.93e-002	2.961e-002
2091	1065	1045	0.4106	5.75e-002	2.871e-002
2092	1066	1046	0.4112	5.81e-002	2.901e-002
2093	1066	1046	0.4148	6.17e-002	3.081e-002
2094	1067	1047	0.416	6.29e-002	3.14e-002
2095	1067	1047	0.4159	6.28e-002	3.135e-002
2096	1068	1048	0.4157	6.26e-002	3.125e-002
2097	1068	1048	0.4145	6.14e-002	3.066e-002
2098	1069	1049	0.4157	6.26e-002	3.125e-002
2099	1069	1049	0.4129	5.98e-002	2.986e-002
2100	1070	1050	0.4153	6.22e-002	3.105e-002
2101	1070	1050	0.4139	6.08e-002	3.036e-002
2102	1071	1051	0.4171	6.4e-002	3.195e-002
2103	1071	1051	0.412	5.89e-002	2.941e-002
2104	1072	1052	0.4147	6.16e-002	3.076e-002
2105	1072	1052	0.4177	6.46e-002	3.225e-002
2106	1073	1053	0.4165	6.34e-002	3.165e-002
2107	1073	1053	0.4162	6.31e-002	3.15e-002
2108	1074	1054	0.4114	5.83e-002	2.911e-002
2109	1074	1054	0.4105	5.74e-002	2.866e-002
2110	1075	1055	0.416	6.29e-002	3.14e-002
2111	1075	1055	0.4142	6.11e-002	3.051e-002
2112	1076	1056	0.4141	6.1e-002	3.046e-002
2113	1076	1056	0.413	5.99e-002	2.991e-002
2114	1077	1057	0.4132	6.01e-002	3.001e-002
2115	1077	1057	0.4127	5.96e-002	2.976e-002
2116	1078	1058	0.4141	6.1e-002	3.046e-002
2117	1078	1058	0.4126	5.95e-002	2.971e-002
2118	1079	1059	0.4133	6.02e-002	3.006e-002
2119	1079	1059	0.4094	5.63e-002	2.811e-002
2120	1080	1060	0.4127	5.96e-002	2.976e-002
2121	1080	1060	0.4148	6.17e-002	3.081e-002
2122	1081	1061	0.4123	5.92e-002	2.956e-002
2123	1081	1061	0.4133	6.02e-002	3.006e-002
2124	1082	1062	0.4138	6.07e-002	3.031e-002
2125	1082	1062	0.4126	5.95e-002	2.971e-002
2126	1083	1063	0.4108	5.77e-002	2.881e-002
2127	1083	1063	0.4091	5.6e-002	2.796e-002
2128	1084	1064	0.4115	5.84e-002	2.916e-002
2129	1084	1064	0.4127	5.96e-002	2.976e-002
2130	1085	1065	0.4151	6.2e-002	3.096e-002
2131	1085	1065	0.415	6.19e-002	3.091e-002
2132	1086	1066	0.4162	6.31e-002	3.15e-002
2133	1086	1066	0.4156	6.25e-002	3.12e-002
2134	1087	1067	0.4139	6.08e-002	3.036e-002
2135	1087	1067	0.4106	5.75e-002	2.871e-002
2136	1088	1068	0.4127	5.96e-002	2.976e-002

2137	1088	1068	0.4124	5.93e-002	2.961e-002
2138	1089	1069	0.4084	5.53e-002	2.761e-002
2139	1089	1069	0.412	5.89e-002	2.941e-002
2140	1090	1070	0.4121	5.9e-002	2.946e-002
2141	1090	1070	0.4087	5.56e-002	2.776e-002
2142	1091	1071	0.4124	5.93e-002	2.961e-002
2143	1091	1071	0.4108	5.77e-002	2.881e-002
2144	1092	1072	0.4108	5.77e-002	2.881e-002
2145	1092	1072	0.4138	6.07e-002	3.031e-002
2146	1093	1073	0.4063	5.32e-002	2.656e-002
2147	1093	1073	0.4094	5.63e-002	2.811e-002
2148	1094	1074	0.4109	5.78e-002	2.886e-002
2149	1094	1074	0.4124	5.93e-002	2.961e-002
2150	1095	1075	0.4105	5.74e-002	2.866e-002
2151	1095	1075	0.413	5.99e-002	2.991e-002
2152	1096	1076	0.4132	6.01e-002	3.001e-002
2153	1096	1076	0.4121	5.9e-002	2.946e-002
2154	1097	1077	0.4103	5.72e-002	2.856e-002
2155	1097	1077	0.4109	5.78e-002	2.886e-002
2156	1098	1078	0.4133	6.02e-002	3.006e-002
2157	1098	1078	0.4141	6.1e-002	3.046e-002
2158	1099	1079	0.4112	5.81e-002	2.901e-002
2159	1099	1079	0.4121	5.9e-002	2.946e-002
2160	1100	1080	0.4118	5.87e-002	2.931e-002
2161	1100	1080	0.4109	5.78e-002	2.886e-002
2162	1101	1081	0.41	5.69e-002	2.841e-002
2163	1101	1081	0.4129	5.98e-002	2.986e-002
2164	1102	1082	0.4085	5.54e-002	2.766e-002
2165	1102	1082	0.4133	6.02e-002	3.006e-002
2166	1103	1083	0.4076	5.45e-002	2.721e-002
2167	1103	1083	0.4135	6.04e-002	3.016e-002
2168	1104	1084	0.4126	5.95e-002	2.971e-002
2169	1104	1084	0.4118	5.87e-002	2.931e-002
2170	1105	1085	0.4091	5.6e-002	2.796e-002
2171	1105	1085	0.4132	6.01e-002	3.001e-002
2172	1106	1086	0.4162	6.31e-002	3.15e-002
2173	1106	1086	0.413	5.99e-002	2.991e-002
2174	1107	1087	0.4142	6.11e-002	3.051e-002
2175	1107	1087	0.4063	5.32e-002	2.656e-002
2176	1108	1088	0.409	5.59e-002	2.791e-002
2177	1108	1088	0.4091	5.6e-002	2.796e-002
2178	1109	1089	0.4103	5.72e-002	2.856e-002
2179	1109	1089	0.4132	6.01e-002	3.001e-002
2180	1110	1090	0.4169	6.38e-002	3.185e-002
2181	1110	1090	0.4109	5.78e-002	2.886e-002
2182	1111	1091	0.4069	5.38e-002	2.686e-002
2183	1111	1091	0.4085	5.54e-002	2.766e-002
2184	1112	1092	0.4087	5.56e-002	2.776e-002
2185	1112	1092	0.4111	5.8e-002	2.896e-002
2186	1113	1093	0.41	5.69e-002	2.841e-002
2187	1113	1093	0.4075	5.44e-002	2.716e-002
2188	1114	1094	0.4165	6.34e-002	3.165e-002
2189	1114	1094	0.4087	5.56e-002	2.776e-002
2190	1115	1095	0.412	5.89e-002	2.941e-002
2191	1115	1095	0.4118	5.87e-002	2.931e-002
2192	1116	1096	0.4085	5.54e-002	2.766e-002
2193	1116	1096	0.4088	5.57e-002	2.781e-002
2194	1117	1097	0.4066	5.35e-002	2.671e-002
2195	1117	1097	0.4096	5.65e-002	2.821e-002
2196	1118	1098	0.413	5.99e-002	2.991e-002

2197	1118	1098	0.4124	5.93e-002	2.961e-002
2198	1119	1099	0.406	5.29e-002	2.641e-002
2199	1119	1099	0.4117	5.86e-002	2.926e-002
2200	1120	1100	0.406	5.29e-002	2.641e-002
2201	1120	1100	0.4114	5.83e-002	2.911e-002
2202	1121	1101	0.4096	5.65e-002	2.821e-002
2203	1121	1101	0.4087	5.56e-002	2.776e-002
2204	1122	1102	0.4127	5.96e-002	2.976e-002
2205	1122	1102	0.41	5.69e-002	2.841e-002
2206	1123	1103	0.4064	5.33e-002	2.661e-002
2207	1123	1103	0.4096	5.65e-002	2.821e-002
2208	1124	1104	0.4087	5.56e-002	2.776e-002
2209	1124	1104	0.413	5.99e-002	2.991e-002
2210	1125	1105	0.4085	5.54e-002	2.766e-002
2211	1125	1105	0.4103	5.72e-002	2.856e-002
2212	1126	1106	0.4069	5.38e-002	2.686e-002
2213	1126	1106	0.4102	5.71e-002	2.851e-002
2214	1127	1107	0.4094	5.63e-002	2.811e-002
2215	1127	1107	0.4094	5.63e-002	2.811e-002
2216	1128	1108	0.412	5.89e-002	2.941e-002
2217	1128	1108	0.407	5.39e-002	2.691e-002
2218	1129	1109	0.4117	5.86e-002	2.926e-002
2219	1129	1109	0.4103	5.72e-002	2.856e-002
2220	1130	1110	0.4108	5.77e-002	2.881e-002
2221	1130	1110	0.4096	5.65e-002	2.821e-002
2222	1131	1111	0.407	5.39e-002	2.691e-002
2223	1131	1111	0.4091	5.6e-002	2.796e-002
2224	1132	1112	0.4093	5.62e-002	2.806e-002
2225	1132	1112	0.4102	5.71e-002	2.851e-002
2226	1133	1113	0.4054	5.23e-002	2.611e-002
2227	1133	1113	0.4093	5.62e-002	2.806e-002
2228	1134	1114	0.4109	5.78e-002	2.886e-002
2229	1134	1114	0.406	5.29e-002	2.641e-002
2230	1135	1115	0.4079	5.48e-002	2.736e-002
2231	1135	1115	0.407	5.39e-002	2.691e-002
2232	1136	1116	0.407	5.39e-002	2.691e-002
2233	1136	1116	0.4054	5.23e-002	2.611e-002
2234	1137	1117	0.4096	5.65e-002	2.821e-002
2235	1137	1117	0.4072	5.41e-002	2.701e-002
2236	1138	1118	0.4087	5.56e-002	2.776e-002
2237	1138	1118	0.4073	5.42e-002	2.706e-002
2238	1139	1119	0.4076	5.45e-002	2.721e-002
2239	1139	1119	0.4127	5.96e-002	2.976e-002
2240	1140	1120	0.4076	5.45e-002	2.721e-002
2241	1140	1120	0.4082	5.51e-002	2.751e-002
2242	1141	1121	0.4088	5.57e-002	2.781e-002
2243	1141	1121	0.4073	5.42e-002	2.706e-002
2244	1142	1122	0.4106	5.75e-002	2.871e-002
2245	1142	1122	0.4096	5.65e-002	2.821e-002
2246	1143	1123	0.4046	5.15e-002	2.571e-002
2247	1143	1123	0.4061	5.3e-002	2.646e-002
2248	1144	1124	0.4052	5.21e-002	2.601e-002
2249	1144	1124	0.4072	5.41e-002	2.701e-002
2250	1145	1125	0.4076	5.45e-002	2.721e-002
2251	1145	1125	0.4079	5.48e-002	2.736e-002
2252	1146	1126	0.4088	5.57e-002	2.781e-002
2253	1146	1126	0.4094	5.63e-002	2.811e-002
2254	1147	1127	0.4078	5.47e-002	2.731e-002
2255	1147	1127	0.4042	5.11e-002	2.551e-002
2256	1148	1128	0.4112	5.81e-002	2.901e-002

2257	1148	1128	0.4049	5.18e-002	2.586e-002
2258	1149	1129	0.4057	5.26e-002	2.626e-002
2259	1149	1129	0.4091	5.6e-002	2.796e-002
2260	1150	1130	0.4088	5.57e-002	2.781e-002
2261	1150	1130	0.407	5.39e-002	2.691e-002
2262	1151	1131	0.4046	5.15e-002	2.571e-002
2263	1151	1131	0.4082	5.51e-002	2.751e-002
2264	1152	1132	0.4069	5.38e-002	2.686e-002
2265	1152	1132	0.4064	5.33e-002	2.661e-002
2266	1153	1133	0.4064	5.33e-002	2.661e-002
2267	1153	1133	0.4063	5.32e-002	2.656e-002
2268	1154	1134	0.4082	5.51e-002	2.751e-002
2269	1154	1134	0.4033	5.02e-002	2.506e-002
2270	1155	1135	0.4087	5.56e-002	2.776e-002
2271	1155	1135	0.4076	5.45e-002	2.721e-002
2272	1156	1136	0.4043	5.12e-002	2.556e-002
2273	1156	1136	0.4073	5.42e-002	2.706e-002
2274	1157	1137	0.4037	5.06e-002	2.526e-002
2275	1157	1137	0.4078	5.47e-002	2.731e-002
2276	1158	1138	0.4034	5.03e-002	2.511e-002
2277	1158	1138	0.4064	5.33e-002	2.661e-002
2278	1159	1139	0.4078	5.47e-002	2.731e-002
2279	1159	1139	0.4049	5.18e-002	2.586e-002
2280	1160	1140	0.4081	5.5e-002	2.746e-002
2281	1160	1140	0.4037	5.06e-002	2.526e-002
2282	1161	1141	0.4029	4.98e-002	2.486e-002
2283	1161	1141	0.404	5.09e-002	2.541e-002
2284	1162	1142	0.4046	5.15e-002	2.571e-002
2285	1162	1142	0.4076	5.45e-002	2.721e-002
2286	1163	1143	0.4048	5.17e-002	2.581e-002
2287	1163	1143	0.4066	5.35e-002	2.671e-002
2288	1164	1144	0.4076	5.45e-002	2.721e-002
2289	1164	1144	0.4055	5.24e-002	2.616e-002
2290	1165	1145	0.4043	5.12e-002	2.556e-002
2291	1165	1145	0.4064	5.33e-002	2.661e-002
2292	1166	1146	0.4159	6.28e-002	3.135e-002
2293	1166	1146	0.4018	4.87e-002	2.431e-002
2294	1167	1147	0.4061	5.3e-002	2.646e-002
2295	1167	1147	0.4036	5.05e-002	2.521e-002
2296	1168	1148	0.4045	5.14e-002	2.566e-002
2297	1168	1148	0.4029	4.98e-002	2.486e-002
2298	1169	1149	0.4052	5.21e-002	2.601e-002
2299	1169	1149	0.4042	5.11e-002	2.551e-002
2300	1170	1150	0.3999	4.68e-002	2.337e-002
2301	1170	1150	0.404	5.09e-002	2.541e-002
2302	1171	1151	0.4022	4.91e-002	2.451e-002
2303	1171	1151	0.4072	5.41e-002	2.701e-002
2304	1172	1152	0.4045	5.14e-002	2.566e-002
2305	1172	1152	0.404	5.09e-002	2.541e-002
2306	1173	1153	0.4067	5.36e-002	2.676e-002
2307	1173	1153	0.4066	5.35e-002	2.671e-002
2308	1174	1154	0.4042	5.11e-002	2.551e-002
2309	1174	1154	0.401	4.79e-002	2.392e-002
2310	1175	1155	0.4054	5.23e-002	2.611e-002
2311	1175	1155	0.4058	5.27e-002	2.631e-002
2312	1176	1156	0.4033	5.02e-002	2.506e-002
2313	1176	1156	0.4022	4.91e-002	2.451e-002
2314	1177	1157	0.4006	4.75e-002	2.372e-002
2315	1177	1157	0.4028	4.97e-002	2.481e-002
2316	1178	1158	0.404	5.09e-002	2.541e-002

2317	1178	1158	0.4018	4.87e-002	2.431e-002
2318	1179	1159	0.4049	5.18e-002	2.586e-002
2319	1179	1159	0.4031	5.e-002	2.496e-002
2320	1180	1160	0.4022	4.91e-002	2.451e-002
2321	1180	1160	0.4045	5.14e-002	2.566e-002
2322	1181	1161	0.4002	4.71e-002	2.352e-002
2323	1181	1161	0.4022	4.91e-002	2.451e-002
2324	1182	1162	0.4013	4.82e-002	2.407e-002
2325	1182	1162	0.4037	5.06e-002	2.526e-002
2326	1183	1163	0.4037	5.06e-002	2.526e-002
2327	1183	1163	0.4024	4.93e-002	2.461e-002
2328	1184	1164	0.4034	5.03e-002	2.511e-002
2329	1184	1164	0.4015	4.84e-002	2.416e-002
2330	1185	1165	0.4043	5.12e-002	2.556e-002
2331	1185	1165	0.4039	5.08e-002	2.536e-002
2332	1186	1166	0.401	4.79e-002	2.392e-002
2333	1186	1166	0.4043	5.12e-002	2.556e-002
2334	1187	1167	0.4094	5.63e-002	2.811e-002
2335	1187	1167	0.4046	5.15e-002	2.571e-002
2336	1188	1168	0.4016	4.85e-002	2.421e-002
2337	1188	1168	0.4034	5.03e-002	2.511e-002
2338	1189	1169	0.4036	5.05e-002	2.521e-002
2339	1189	1169	0.4027	4.96e-002	2.476e-002
2340	1190	1170	0.4058	5.27e-002	2.631e-002
2341	1190	1170	0.4061	5.3e-002	2.646e-002
2342	1191	1171	0.4015	4.84e-002	2.416e-002
2343	1191	1171	0.4052	5.21e-002	2.601e-002
2344	1192	1172	0.4096	5.65e-002	2.821e-002
2345	1192	1172	0.4002	4.71e-002	2.352e-002
2346	1193	1173	0.4016	4.85e-002	2.421e-002
2347	1193	1173	0.4022	4.91e-002	2.451e-002
2348	1194	1174	0.4051	5.2e-002	2.596e-002
2349	1194	1174	0.4022	4.91e-002	2.451e-002
2350	1195	1175	0.4045	5.14e-002	2.566e-002
2351	1195	1175	0.4004	4.73e-002	2.362e-002
2352	1196	1176	0.4013	4.82e-002	2.407e-002
2353	1196	1176	0.4037	5.06e-002	2.526e-002
2354	1197	1177	0.4015	4.84e-002	2.416e-002
2355	1197	1177	0.4016	4.85e-002	2.421e-002
2356	1198	1178	0.4031	5.e-002	2.496e-002
2357	1198	1178	0.4051	5.2e-002	2.596e-002
2358	1199	1179	0.4061	5.3e-002	2.646e-002
2359	1199	1179	0.4043	5.12e-002	2.556e-002
2360	1200	1180	0.4028	4.97e-002	2.481e-002
2361	1200	1180	0.4013	4.82e-002	2.407e-002
2362	1201	1181	0.401	4.79e-002	2.392e-002
2363	1201	1181	0.3972	4.41e-002	2.202e-002
2364	1202	1182	0.4027	4.96e-002	2.476e-002
2365	1202	1182	0.4033	5.02e-002	2.506e-002
2366	1203	1183	0.4019	4.88e-002	2.436e-002
2367	1203	1183	0.4018	4.87e-002	2.431e-002
2368	1204	1184	0.3996	4.65e-002	2.322e-002
2369	1204	1184	0.4045	5.14e-002	2.566e-002
2370	1205	1185	0.3999	4.68e-002	2.337e-002
2371	1205	1185	0.3996	4.65e-002	2.322e-002
2372	1206	1186	0.398	4.49e-002	2.242e-002
2373	1206	1186	0.4006	4.75e-002	2.372e-002
2374	1207	1187	0.4022	4.91e-002	2.451e-002
2375	1207	1187	0.4028	4.97e-002	2.481e-002
2376	1208	1188	0.3999	4.68e-002	2.337e-002

2377	1208	1188	0.4016	4.85e-002	2.421e-002
2378	1209	1189	0.4045	5.14e-002	2.566e-002
2379	1209	1189	0.4013	4.82e-002	2.407e-002
2380	1210	1190	0.401	4.79e-002	2.392e-002
2381	1210	1190	0.4009	4.78e-002	2.387e-002
2382	1211	1191	0.4019	4.88e-002	2.436e-002
2383	1211	1191	0.4013	4.82e-002	2.407e-002
2384	1212	1192	0.4018	4.87e-002	2.431e-002
2385	1212	1192	0.4012	4.81e-002	2.402e-002
2386	1213	1193	0.3985	4.54e-002	2.267e-002
2387	1213	1193	0.3996	4.65e-002	2.322e-002
2388	1214	1194	0.3986	4.55e-002	2.272e-002
2389	1214	1194	0.4031	5.e-002	2.496e-002
2390	1215	1195	0.4002	4.71e-002	2.352e-002
2391	1215	1195	0.401	4.79e-002	2.392e-002
2392	1216	1196	0.4033	5.02e-002	2.506e-002
2393	1216	1196	0.3996	4.65e-002	2.322e-002
2394	1217	1197	0.3999	4.68e-002	2.337e-002
2395	1217	1197	0.3988	4.57e-002	2.282e-002
2396	1218	1198	0.4046	5.15e-002	2.571e-002
2397	1218	1198	0.3996	4.65e-002	2.322e-002
2398	1219	1199	0.4001	4.7e-002	2.347e-002
2399	1219	1199	0.4013	4.82e-002	2.407e-002
2400	1220	1200	0.3996	4.65e-002	2.322e-002
2401	1220	1200	0.4036	5.05e-002	2.521e-002
2402	1221	1201	0.4013	4.82e-002	2.407e-002
2403	1221	1201	0.4034	5.03e-002	2.511e-002
2404	1222	1202	0.4019	4.88e-002	2.436e-002
2405	1222	1202	0.4013	4.82e-002	2.407e-002
2406	1223	1203	0.3972	4.41e-002	2.202e-002
2407	1223	1203	0.4043	5.12e-002	2.556e-002
2408	1224	1204	0.4018	4.87e-002	2.431e-002
2409	1224	1204	0.3992	4.61e-002	2.302e-002
2410	1225	1205	0.3993	4.62e-002	2.307e-002
2411	1225	1205	0.4022	4.91e-002	2.451e-002
2412	1226	1206	0.4052	5.21e-002	2.601e-002
2413	1226	1206	0.3988	4.57e-002	2.282e-002
2414	1227	1207	0.4016	4.85e-002	2.421e-002
2415	1227	1207	0.3995	4.64e-002	2.317e-002
2416	1228	1208	0.3978	4.47e-002	2.232e-002
2417	1228	1208	0.4001	4.7e-002	2.347e-002
2418	1229	1209	0.3969	4.38e-002	2.187e-002
2419	1229	1209	0.401	4.79e-002	2.392e-002
2420	1230	1210	0.3974	4.43e-002	2.212e-002
2421	1230	1210	0.3971	4.4e-002	2.197e-002
2422	1231	1211	0.3981	4.5e-002	2.247e-002
2423	1231	1211	0.4019	4.88e-002	2.436e-002
2424	1232	1212	0.3986	4.55e-002	2.272e-002
2425	1232	1212	0.4009	4.78e-002	2.387e-002
2426	1233	1213	0.3965	4.34e-002	2.167e-002
2427	1233	1213	0.398	4.49e-002	2.242e-002
2428	1234	1214	0.3975	4.44e-002	2.217e-002
2429	1234	1214	0.4015	4.84e-002	2.416e-002
2430	1235	1215	0.4009	4.78e-002	2.387e-002
2431	1235	1215	0.4004	4.73e-002	2.362e-002
2432	1236	1216	0.4022	4.91e-002	2.451e-002
2433	1236	1216	0.4024	4.93e-002	2.461e-002
2434	1237	1217	0.3992	4.61e-002	2.302e-002
2435	1237	1217	0.3989	4.58e-002	2.287e-002
2436	1238	1218	0.4022	4.91e-002	2.451e-002

2437	1238	1218	0.3981	4.5e-002	2.247e-002
2438	1239	1219	0.3974	4.43e-002	2.212e-002
2439	1239	1219	0.3983	4.52e-002	2.257e-002
2440	1240	1220	0.3991	4.6e-002	2.297e-002
2441	1240	1220	0.3981	4.5e-002	2.247e-002
2442	1241	1221	0.3978	4.47e-002	2.232e-002
2443	1241	1221	0.3992	4.61e-002	2.302e-002
2444	1242	1222	0.4009	4.78e-002	2.387e-002
2445	1242	1222	0.3988	4.57e-002	2.282e-002
2446	1243	1223	0.3995	4.64e-002	2.317e-002
2447	1243	1223	0.3972	4.41e-002	2.202e-002
2448	1244	1224	0.3952	4.21e-002	2.102e-002
2449	1244	1224	0.3986	4.55e-002	2.272e-002
2450	1245	1225	0.3972	4.41e-002	2.202e-002
2451	1245	1225	0.3981	4.5e-002	2.247e-002
2452	1246	1226	0.4001	4.7e-002	2.347e-002
2453	1246	1226	0.3959	4.28e-002	2.137e-002
2454	1247	1227	0.3986	4.55e-002	2.272e-002
2455	1247	1227	0.3988	4.57e-002	2.282e-002
2456	1248	1228	0.3986	4.55e-002	2.272e-002
2457	1248	1228	0.3947	4.16e-002	2.077e-002
2458	1249	1229	0.3988	4.57e-002	2.282e-002
2459	1249	1229	0.3936	4.05e-002	2.022e-002
2460	1250	1230	0.3991	4.6e-002	2.297e-002
2461	1250	1230	0.3972	4.41e-002	2.202e-002
2462	1251	1231	0.3998	4.67e-002	2.332e-002
2463	1251	1231	0.3975	4.44e-002	2.217e-002
2464	1252	1232	0.4001	4.7e-002	2.347e-002
2465	1252	1232	0.3972	4.41e-002	2.202e-002
2466	1253	1233	0.3941	4.1e-002	2.047e-002
2467	1253	1233	0.3978	4.47e-002	2.232e-002
2468	1254	1234	0.3965	4.34e-002	2.167e-002
2469	1254	1234	0.3996	4.65e-002	2.322e-002
2470	1255	1235	0.3961	4.3e-002	2.147e-002
2471	1255	1235	0.3966	4.35e-002	2.172e-002
2472	1256	1236	0.3999	4.68e-002	2.337e-002
2473	1256	1236	0.3952	4.21e-002	2.102e-002
2474	1257	1237	0.3959	4.28e-002	2.137e-002
2475	1257	1237	0.3971	4.4e-002	2.197e-002
2476	1258	1238	0.3962	4.31e-002	2.152e-002
2477	1258	1238	0.395	4.19e-002	2.092e-002
2478	1259	1239	0.3964	4.33e-002	2.162e-002
2479	1259	1239	0.3977	4.46e-002	2.227e-002
2480	1260	1240	0.3962	4.31e-002	2.152e-002
2481	1260	1240	0.401	4.79e-002	2.392e-002
2482	1261	1241	0.3992	4.61e-002	2.302e-002
2483	1261	1241	0.3999	4.68e-002	2.337e-002
2484	1262	1242	0.3975	4.44e-002	2.217e-002
2485	1262	1242	0.3964	4.33e-002	2.162e-002
2486	1263	1243	0.3964	4.33e-002	2.162e-002
2487	1263	1243	0.3968	4.37e-002	2.182e-002
2488	1264	1244	0.3937	4.06e-002	2.027e-002
2489	1264	1244	0.3966	4.35e-002	2.172e-002
2490	1265	1245	0.3968	4.37e-002	2.182e-002
2491	1265	1245	0.3992	4.61e-002	2.302e-002
2492	1266	1246	0.3966	4.35e-002	2.172e-002
2493	1266	1246	0.4001	4.7e-002	2.347e-002
2494	1267	1247	0.3974	4.43e-002	2.212e-002
2495	1267	1247	0.3936	4.05e-002	2.022e-002
2496	1268	1248	0.3969	4.38e-002	2.187e-002

2497	1268	1248	0.3968	4.37e-002	2.182e-002
2498	1269	1249	0.3962	4.31e-002	2.152e-002
2499	1269	1249	0.3964	4.33e-002	2.162e-002
2500	1270	1250	0.3952	4.21e-002	2.102e-002
2501	1270	1250	0.4006	4.75e-002	2.372e-002
2502	1271	1251	0.3978	4.47e-002	2.232e-002
2503	1271	1251	0.3989	4.58e-002	2.287e-002
2504	1272	1252	0.3955	4.24e-002	2.117e-002
2505	1272	1252	0.3942	4.11e-002	2.052e-002
2506	1273	1253	0.3968	4.37e-002	2.182e-002
2507	1273	1253	0.3958	4.27e-002	2.132e-002
2508	1274	1254	0.3981	4.5e-002	2.247e-002
2509	1274	1254	0.3983	4.52e-002	2.257e-002
2510	1275	1255	0.3934	4.03e-002	2.012e-002
2511	1275	1255	0.395	4.19e-002	2.092e-002
2512	1276	1256	0.3983	4.52e-002	2.257e-002
2513	1276	1256	0.3924	3.93e-002	1.962e-002
2514	1277	1257	0.3944	4.13e-002	2.062e-002
2515	1277	1257	0.3962	4.31e-002	2.152e-002
2516	1278	1258	0.3953	4.22e-002	2.107e-002
2517	1278	1258	0.3947	4.16e-002	2.077e-002
2518	1279	1259	0.393	3.99e-002	1.992e-002
2519	1279	1259	0.4001	4.7e-002	2.347e-002
2520	1280	1260	0.3948	4.17e-002	2.082e-002
2521	1280	1260	0.3975	4.44e-002	2.217e-002
2522	1281	1261	0.3941	4.1e-002	2.047e-002
2523	1281	1261	0.3935	4.04e-002	2.017e-002
2524	1282	1262	0.3978	4.47e-002	2.232e-002
2525	1282	1262	0.3938	4.07e-002	2.032e-002
2526	1283	1263	0.3945	4.14e-002	2.067e-002
2527	1283	1263	0.3959	4.28e-002	2.137e-002
2528	1284	1264	0.393	3.99e-002	1.992e-002
2529	1284	1264	0.3953	4.22e-002	2.107e-002
2530	1285	1265	0.3974	4.43e-002	2.212e-002
2531	1285	1265	0.3998	4.67e-002	2.332e-002
2532	1286	1266	0.3953	4.22e-002	2.107e-002
2533	1286	1266	0.3966	4.35e-002	2.172e-002
2534	1287	1267	0.4007	4.76e-002	2.377e-002
2535	1287	1267	0.3932	4.01e-002	2.002e-002
2536	1288	1268	0.3923	3.92e-002	1.957e-002
2537	1288	1268	0.3924	3.93e-002	1.962e-002
2538	1289	1269	0.3961	4.3e-002	2.147e-002
2539	1289	1269	0.3947	4.16e-002	2.077e-002
2540	1290	1270	0.3936	4.05e-002	2.022e-002
2541	1290	1270	0.395	4.19e-002	2.092e-002
2542	1291	1271	0.3995	4.64e-002	2.317e-002
2543	1291	1271	0.3971	4.4e-002	2.197e-002
2544	1292	1272	0.3916	3.85e-002	1.922e-002
2545	1292	1272	0.3944	4.13e-002	2.062e-002
2546	1293	1273	0.3989	4.58e-002	2.287e-002
2547	1293	1273	0.3966	4.35e-002	2.172e-002
2548	1294	1274	0.3969	4.38e-002	2.187e-002
2549	1294	1274	0.3962	4.31e-002	2.152e-002
2550	1295	1275	0.3941	4.1e-002	2.047e-002
2551	1295	1275	0.3975	4.44e-002	2.217e-002
2552	1296	1276	0.3945	4.14e-002	2.067e-002
2553	1296	1276	0.3955	4.24e-002	2.117e-002
2554	1297	1277	0.3941	4.1e-002	2.047e-002
2555	1297	1277	0.3935	4.04e-002	2.017e-002
2556	1298	1278	0.3953	4.22e-002	2.107e-002

2557	1298	1278	0.3942	4.11e-002	2.052e-002
2558	1299	1279	0.3882	3.51e-002	1.752e-002
2559	1299	1279	0.3964	4.33e-002	2.162e-002
2560	1300	1280	0.3983	4.52e-002	2.257e-002
2561	1300	1280	0.3942	4.11e-002	2.052e-002
2562	1301	1281	0.3968	4.37e-002	2.182e-002
2563	1301	1281	0.395	4.19e-002	2.092e-002
2564	1302	1282	0.3962	4.31e-002	2.152e-002
2565	1302	1282	0.3942	4.11e-002	2.052e-002
2566	1303	1283	0.3917	3.86e-002	1.927e-002
2567	1303	1283	0.3964	4.33e-002	2.162e-002
2568	1304	1284	0.3922	3.91e-002	1.952e-002
2569	1304	1284	0.3936	4.05e-002	2.022e-002
2570	1305	1285	0.3924	3.93e-002	1.962e-002
2571	1305	1285	0.3953	4.22e-002	2.107e-002
2572	1306	1286	0.3961	4.3e-002	2.147e-002
2573	1306	1286	0.3935	4.04e-002	2.017e-002
2574	1307	1287	0.3901	3.7e-002	1.847e-002
2575	1307	1287	0.3929	3.98e-002	1.987e-002
2576	1308	1288	0.3964	4.33e-002	2.162e-002
2577	1308	1288	0.3935	4.04e-002	2.017e-002
2578	1309	1289	0.3929	3.98e-002	1.987e-002
2579	1309	1289	0.3926	3.95e-002	1.972e-002
2580	1310	1290	0.3978	4.47e-002	2.232e-002
2581	1310	1290	0.3934	4.03e-002	2.012e-002
2582	1311	1291	0.3903	3.72e-002	1.857e-002
2583	1311	1291	0.3936	4.05e-002	2.022e-002
2584	1312	1292	0.3941	4.1e-002	2.047e-002
2585	1312	1292	0.3983	4.52e-002	2.257e-002
2586	1313	1293	0.3959	4.28e-002	2.137e-002
2587	1313	1293	0.3964	4.33e-002	2.162e-002
2588	1314	1294	0.3918	3.87e-002	1.932e-002
2589	1314	1294	0.3908	3.77e-002	1.882e-002
2590	1315	1295	0.3932	4.01e-002	2.002e-002
2591	1315	1295	0.3926	3.95e-002	1.972e-002
2592	1316	1296	0.3995	4.64e-002	2.317e-002
2593	1316	1296	0.3944	4.13e-002	2.062e-002
2594	1317	1297	0.3938	4.07e-002	2.032e-002
2595	1317	1297	0.3932	4.01e-002	2.002e-002
2596	1318	1298	0.3962	4.31e-002	2.152e-002
2597	1318	1298	0.393	3.99e-002	1.992e-002
2598	1319	1299	0.3921	3.9e-002	1.947e-002
2599	1319	1299	0.3969	4.38e-002	2.187e-002
2600	1320	1300	0.3879	3.48e-002	1.737e-002
2601	1320	1300	0.3912	3.81e-002	1.902e-002
2602	1321	1301	0.3906	3.75e-002	1.872e-002
2603	1321	1301	0.3906	3.75e-002	1.872e-002
2604	1322	1302	0.3908	3.77e-002	1.882e-002
2605	1322	1302	0.3924	3.93e-002	1.962e-002
2606	1323	1303	0.3911	3.8e-002	1.897e-002
2607	1323	1303	0.3941	4.1e-002	2.047e-002
2608	1324	1304	0.3911	3.8e-002	1.897e-002
2609	1324	1304	0.3941	4.1e-002	2.047e-002
2610	1325	1305	0.3923	3.92e-002	1.957e-002
2611	1325	1305	0.3953	4.22e-002	2.107e-002
2612	1326	1306	0.3899	3.68e-002	1.837e-002
2613	1326	1306	0.3885	3.54e-002	1.767e-002
2614	1327	1307	0.3929	3.98e-002	1.987e-002
2615	1327	1307	0.3887	3.56e-002	1.777e-002
2616	1328	1308	0.3892	3.61e-002	1.802e-002

2617	1328	1308	0.3911	3.8e-002	1.897e-002
2618	1329	1309	0.3906	3.75e-002	1.872e-002
2619	1329	1309	0.3914	3.83e-002	1.912e-002
2620	1330	1310	0.3927	3.96e-002	1.977e-002
2621	1330	1310	0.3912	3.81e-002	1.902e-002
2622	1331	1311	0.3948	4.17e-002	2.082e-002
2623	1331	1311	0.3905	3.74e-002	1.867e-002
2624	1332	1312	0.3917	3.86e-002	1.927e-002
2625	1332	1312	0.3947	4.16e-002	2.077e-002
2626	1333	1313	0.3918	3.87e-002	1.932e-002
2627	1333	1313	0.3905	3.74e-002	1.867e-002
2628	1334	1314	0.3923	3.92e-002	1.957e-002
2629	1334	1314	0.3932	4.01e-002	2.002e-002
2630	1335	1315	0.3929	3.98e-002	1.987e-002
2631	1335	1315	0.3924	3.93e-002	1.962e-002
2632	1336	1316	0.3932	4.01e-002	2.002e-002
2633	1336	1316	0.3916	3.85e-002	1.922e-002
2634	1337	1317	0.3935	4.04e-002	2.017e-002
2635	1337	1317	0.3875	3.44e-002	1.718e-002
2636	1338	1318	0.3903	3.72e-002	1.857e-002
2637	1338	1318	0.395	4.19e-002	2.092e-002
2638	1339	1319	0.3903	3.72e-002	1.857e-002
2639	1339	1319	0.3939	4.08e-002	2.037e-002
2640	1340	1320	0.3906	3.75e-002	1.872e-002
2641	1340	1320	0.3923	3.92e-002	1.957e-002
2642	1341	1321	0.3918	3.87e-002	1.932e-002
2643	1341	1321	0.3935	4.04e-002	2.017e-002
2644	1342	1322	0.3888	3.57e-002	1.782e-002
2645	1342	1322	0.3871	3.4e-002	1.698e-002
2646	1343	1323	0.3902	3.71e-002	1.852e-002
2647	1343	1323	0.3905	3.74e-002	1.867e-002
2648	1344	1324	0.3881	3.5e-002	1.747e-002
2649	1344	1324	0.3866	3.35e-002	1.673e-002
2650	1345	1325	0.3908	3.77e-002	1.882e-002
2651	1345	1325	0.3944	4.13e-002	2.062e-002
2652	1346	1326	0.3918	3.87e-002	1.932e-002
2653	1346	1326	0.3936	4.05e-002	2.022e-002
2654	1347	1327	0.3892	3.61e-002	1.802e-002
2655	1347	1327	0.393	3.99e-002	1.992e-002
2656	1348	1328	0.3906	3.75e-002	1.872e-002
2657	1348	1328	0.3903	3.72e-002	1.857e-002
2658	1349	1329	0.3916	3.85e-002	1.922e-002
2659	1349	1329	0.3936	4.05e-002	2.022e-002
2660	1350	1330	0.3905	3.74e-002	1.867e-002
2661	1350	1330	0.3893	3.62e-002	1.807e-002
2662	1351	1331	0.3888	3.57e-002	1.782e-002
2663	1351	1331	0.3914	3.83e-002	1.912e-002
2664	1352	1332	0.3901	3.7e-002	1.847e-002
2665	1352	1332	0.3918	3.87e-002	1.932e-002
2666	1353	1333	0.3888	3.57e-002	1.782e-002
2667	1353	1333	0.3942	4.11e-002	2.052e-002
2668	1354	1334	0.3888	3.57e-002	1.782e-002
2669	1354	1334	0.3873	3.42e-002	1.708e-002
2670	1355	1335	0.391	3.79e-002	1.892e-002
2671	1355	1335	0.3896	3.65e-002	1.822e-002
2672	1356	1336	0.389	3.59e-002	1.792e-002
2673	1356	1336	0.3867	3.36e-002	1.678e-002
2674	1357	1337	0.3908	3.77e-002	1.882e-002
2675	1357	1337	0.3921	3.9e-002	1.947e-002
2676	1358	1338	0.3912	3.81e-002	1.902e-002

2677	1358	1338	0.3896	3.65e-002	1.822e-002
2678	1359	1339	0.3878	3.47e-002	1.732e-002
2679	1359	1339	0.3902	3.71e-002	1.852e-002
2680	1360	1340	0.3917	3.86e-002	1.927e-002
2681	1360	1340	0.3918	3.87e-002	1.932e-002
2682	1361	1341	0.3894	3.63e-002	1.812e-002
2683	1361	1341	0.3896	3.65e-002	1.822e-002
2684	1362	1342	0.3917	3.86e-002	1.927e-002
2685	1362	1342	0.3917	3.86e-002	1.927e-002
2686	1363	1343	0.3912	3.81e-002	1.902e-002
2687	1363	1343	0.3887	3.56e-002	1.777e-002
2688	1364	1344	0.3888	3.57e-002	1.782e-002
2689	1364	1344	0.3892	3.61e-002	1.802e-002
2690	1365	1345	0.3923	3.92e-002	1.957e-002
2691	1365	1345	0.3901	3.7e-002	1.847e-002
2692	1366	1346	0.3908	3.77e-002	1.882e-002
2693	1366	1346	0.3882	3.51e-002	1.752e-002
2694	1367	1347	0.3902	3.71e-002	1.852e-002
2695	1367	1347	0.3888	3.57e-002	1.782e-002
2696	1368	1348	0.3894	3.63e-002	1.812e-002
2697	1368	1348	0.3905	3.74e-002	1.867e-002
2698	1369	1349	0.3876	3.45e-002	1.723e-002
2699	1369	1349	0.3903	3.72e-002	1.857e-002
2700	1370	1350	0.3902	3.71e-002	1.852e-002
2701	1370	1350	0.3882	3.51e-002	1.752e-002
2702	1371	1351	0.3918	3.87e-002	1.932e-002
2703	1371	1351	0.3901	3.7e-002	1.847e-002
2704	1372	1352	0.3906	3.75e-002	1.872e-002
2705	1372	1352	0.3879	3.48e-002	1.737e-002
2706	1373	1353	0.3875	3.44e-002	1.718e-002
2707	1373	1353	0.384	3.09e-002	1.543e-002
2708	1374	1354	0.3865	3.34e-002	1.668e-002
2709	1374	1354	0.3872	3.41e-002	1.703e-002
2710	1375	1355	0.3903	3.72e-002	1.857e-002
2711	1375	1355	0.3927	3.96e-002	1.977e-002
2712	1376	1356	0.3927	3.96e-002	1.977e-002
2713	1376	1356	0.389	3.59e-002	1.792e-002
2714	1377	1357	0.3878	3.47e-002	1.732e-002
2715	1377	1357	0.3867	3.36e-002	1.678e-002
2716	1378	1358	0.3884	3.53e-002	1.762e-002
2717	1378	1358	0.393	3.99e-002	1.992e-002
2718	1379	1359	0.3901	3.7e-002	1.847e-002
2719	1379	1359	0.3905	3.74e-002	1.867e-002
2720	1380	1360	0.3901	3.7e-002	1.847e-002
2721	1380	1360	0.3861	3.3e-002	1.648e-002
2722	1381	1361	0.3896	3.65e-002	1.822e-002
2723	1381	1361	0.3914	3.83e-002	1.912e-002
2724	1382	1362	0.3894	3.63e-002	1.812e-002
2725	1382	1362	0.3911	3.8e-002	1.897e-002
2726	1383	1363	0.3906	3.75e-002	1.872e-002
2727	1383	1363	0.3857	3.26e-002	1.628e-002
2728	1384	1364	0.3884	3.53e-002	1.762e-002
2729	1384	1364	0.3833	3.02e-002	1.508e-002
2730	1385	1365	0.3879	3.48e-002	1.737e-002
2731	1385	1365	0.3896	3.65e-002	1.822e-002
2732	1386	1366	0.3899	3.68e-002	1.837e-002
2733	1386	1366	0.3911	3.8e-002	1.897e-002
2734	1387	1367	0.3838	3.07e-002	1.533e-002
2735	1387	1367	0.389	3.59e-002	1.792e-002
2736	1388	1368	0.3892	3.61e-002	1.802e-002

2737	1388	1368	0.386	3.29e-002	1.643e-002
2738	1389	1369	0.3866	3.35e-002	1.673e-002
2739	1389	1369	0.3878	3.47e-002	1.732e-002
2740	1390	1370	0.3852	3.21e-002	1.603e-002
2741	1390	1370	0.3842	3.11e-002	1.553e-002
2742	1391	1371	0.3894	3.63e-002	1.812e-002
2743	1391	1371	0.3894	3.63e-002	1.812e-002
2744	1392	1372	0.3834	3.03e-002	1.513e-002
2745	1392	1372	0.3892	3.61e-002	1.802e-002
2746	1393	1373	0.3888	3.57e-002	1.782e-002
2747	1393	1373	0.3866	3.35e-002	1.673e-002
2748	1394	1374	0.3906	3.75e-002	1.872e-002
2749	1394	1374	0.3852	3.21e-002	1.603e-002
2750	1395	1375	0.3862	3.31e-002	1.653e-002
2751	1395	1375	0.3898	3.67e-002	1.832e-002
2752	1396	1376	0.3906	3.75e-002	1.872e-002
2753	1396	1376	0.3866	3.35e-002	1.673e-002
2754	1397	1377	0.3906	3.75e-002	1.872e-002
2755	1397	1377	0.3867	3.36e-002	1.678e-002
2756	1398	1378	0.3862	3.31e-002	1.653e-002
2757	1398	1378	0.3858	3.27e-002	1.633e-002
2758	1399	1379	0.3876	3.45e-002	1.723e-002
2759	1399	1379	0.3843	3.12e-002	1.558e-002
2760	1400	1380	0.3894	3.63e-002	1.812e-002
2761	1400	1380	0.3906	3.75e-002	1.872e-002
2762	1401	1381	0.3884	3.53e-002	1.762e-002
2763	1401	1381	0.3902	3.71e-002	1.852e-002
2764	1402	1382	0.3867	3.36e-002	1.678e-002
2765	1402	1382	0.3845	3.14e-002	1.568e-002
2766	1403	1383	0.3855	3.24e-002	1.618e-002
2767	1403	1383	0.3927	3.96e-002	1.977e-002
2768	1404	1384	0.3864	3.33e-002	1.663e-002
2769	1404	1384	0.3809	2.78e-002	1.388e-002
2770	1405	1385	0.386	3.29e-002	1.643e-002
2771	1405	1385	0.3899	3.68e-002	1.837e-002
2772	1406	1386	0.3848	3.17e-002	1.583e-002
2773	1406	1386	0.3866	3.35e-002	1.673e-002
2774	1407	1387	0.3882	3.51e-002	1.752e-002
2775	1407	1387	0.3864	3.33e-002	1.663e-002
2776	1408	1388	0.3798	2.67e-002	1.333e-002
2777	1408	1388	0.3843	3.12e-002	1.558e-002
2778	1409	1389	0.3888	3.57e-002	1.782e-002
2779	1409	1389	0.386	3.29e-002	1.643e-002
2780	1410	1390	0.3848	3.17e-002	1.583e-002
2781	1410	1390	0.3834	3.03e-002	1.513e-002
2782	1411	1391	0.3854	3.23e-002	1.613e-002
2783	1411	1391	0.3831	3.e-002	1.498e-002
2784	1412	1392	0.3873	3.42e-002	1.708e-002
2785	1412	1392	0.3887	3.56e-002	1.777e-002
2786	1413	1393	0.387	3.39e-002	1.693e-002
2787	1413	1393	0.389	3.59e-002	1.792e-002
2788	1414	1394	0.3864	3.33e-002	1.663e-002
2789	1414	1394	0.3851	3.2e-002	1.598e-002
2790	1415	1395	0.3864	3.33e-002	1.663e-002
2791	1415	1395	0.3875	3.44e-002	1.718e-002
2792	1416	1396	0.387	3.39e-002	1.693e-002
2793	1416	1396	0.3838	3.07e-002	1.533e-002
2794	1417	1397	0.3888	3.57e-002	1.782e-002
2795	1417	1397	0.3857	3.26e-002	1.628e-002
2796	1418	1398	0.3873	3.42e-002	1.708e-002

2797	1418	1398	0.3893	3.62e-002	1.807e-002
2798	1419	1399	0.3845	3.14e-002	1.568e-002
2799	1419	1399	0.3852	3.21e-002	1.603e-002
2800	1420	1400	0.3869	3.38e-002	1.688e-002
2801	1420	1400	0.3906	3.75e-002	1.872e-002
2802	1421	1401	0.381	2.79e-002	1.393e-002
2803	1421	1401	0.3873	3.42e-002	1.708e-002
2804	1422	1402	0.3879	3.48e-002	1.737e-002
2805	1422	1402	0.3879	3.48e-002	1.737e-002
2806	1423	1403	0.3801	2.7e-002	1.348e-002
2807	1423	1403	0.3848	3.17e-002	1.583e-002
2808	1424	1404	0.3839	3.08e-002	1.538e-002
2809	1424	1404	0.3849	3.18e-002	1.588e-002
2810	1425	1405	0.3872	3.41e-002	1.703e-002
2811	1425	1405	0.3824	2.93e-002	1.463e-002
2812	1426	1406	0.3839	3.08e-002	1.538e-002
2813	1426	1406	0.3851	3.2e-002	1.598e-002
2814	1427	1407	0.3839	3.08e-002	1.538e-002
2815	1427	1407	0.384	3.09e-002	1.543e-002
2816	1428	1408	0.3833	3.02e-002	1.508e-002
2817	1428	1408	0.3849	3.18e-002	1.588e-002
2818	1429	1409	0.3864	3.33e-002	1.663e-002
2819	1429	1409	0.3858	3.27e-002	1.633e-002
2820	1430	1410	0.3857	3.26e-002	1.628e-002
2821	1430	1410	0.386	3.29e-002	1.643e-002
2822	1431	1411	0.3893	3.62e-002	1.807e-002
2823	1431	1411	0.386	3.29e-002	1.643e-002
2824	1432	1412	0.3816	2.85e-002	1.423e-002
2825	1432	1412	0.3809	2.78e-002	1.388e-002
2826	1433	1413	0.3797	2.66e-002	1.328e-002
2827	1433	1413	0.3852	3.21e-002	1.603e-002
2828	1434	1414	0.3845	3.14e-002	1.568e-002
2829	1434	1414	0.3848	3.17e-002	1.583e-002
2830	1435	1415	0.3827	2.96e-002	1.478e-002
2831	1435	1415	0.3828	2.97e-002	1.483e-002
2832	1436	1416	0.3885	3.54e-002	1.767e-002
2833	1436	1416	0.384	3.09e-002	1.543e-002
2834	1437	1417	0.3846	3.15e-002	1.573e-002
2835	1437	1417	0.3851	3.2e-002	1.598e-002
2836	1438	1418	0.3863	3.32e-002	1.658e-002
2837	1438	1418	0.384	3.09e-002	1.543e-002
2838	1439	1419	0.3848	3.17e-002	1.583e-002
2839	1439	1419	0.3846	3.15e-002	1.573e-002
2840	1440	1420	0.3854	3.23e-002	1.613e-002
2841	1440	1420	0.3842	3.11e-002	1.553e-002
2842	1441	1421	0.3845	3.14e-002	1.568e-002
2843	1441	1421	0.3843	3.12e-002	1.558e-002
2844	1442	1422	0.386	3.29e-002	1.643e-002
2845	1442	1422	0.3818	2.87e-002	1.433e-002
2846	1443	1423	0.3896	3.65e-002	1.822e-002
2847	1443	1423	0.3831	3.e-002	1.498e-002
2848	1444	1424	0.3837	3.06e-002	1.528e-002
2849	1444	1424	0.3833	3.02e-002	1.508e-002
2850	1445	1425	0.3885	3.54e-002	1.767e-002
2851	1445	1425	0.3839	3.08e-002	1.538e-002
2852	1446	1426	0.3872	3.41e-002	1.703e-002
2853	1446	1426	0.3821	2.9e-002	1.448e-002
2854	1447	1427	0.3848	3.17e-002	1.583e-002
2855	1447	1427	0.3792	2.61e-002	1.303e-002
2856	1448	1428	0.3843	3.12e-002	1.558e-002

2857	1448	1428	0.3834	3.03e-002	1.513e-002
2858	1449	1429	0.3864	3.33e-002	1.663e-002
2859	1449	1429	0.3872	3.41e-002	1.703e-002
2860	1450	1430	0.3863	3.32e-002	1.658e-002
2861	1450	1430	0.3825	2.94e-002	1.468e-002
2862	1451	1431	0.3836	3.05e-002	1.523e-002
2863	1451	1431	0.3825	2.94e-002	1.468e-002
2864	1452	1432	0.384	3.09e-002	1.543e-002
2865	1452	1432	0.3845	3.14e-002	1.568e-002
2866	1453	1433	0.3837	3.06e-002	1.528e-002
2867	1453	1433	0.3833	3.02e-002	1.508e-002
2868	1454	1434	0.3878	3.47e-002	1.732e-002
2869	1454	1434	0.3866	3.35e-002	1.673e-002
2870	1455	1435	0.3834	3.03e-002	1.513e-002
2871	1455	1435	0.3839	3.08e-002	1.538e-002
2872	1456	1436	0.3782	2.51e-002	1.253e-002
2873	1456	1436	0.3839	3.08e-002	1.538e-002
2874	1457	1437	0.3794	2.63e-002	1.313e-002
2875	1457	1437	0.3824	2.93e-002	1.463e-002
2876	1458	1438	0.3822	2.91e-002	1.453e-002
2877	1458	1438	0.3833	3.02e-002	1.508e-002
2878	1459	1439	0.3846	3.15e-002	1.573e-002
2879	1459	1439	0.3873	3.42e-002	1.708e-002
2880	1460	1440	0.3801	2.7e-002	1.348e-002
2881	1460	1440	0.3809	2.78e-002	1.388e-002
2882	1461	1441	0.383	2.99e-002	1.493e-002
2883	1461	1441	0.3824	2.93e-002	1.463e-002
2884	1462	1442	0.3812	2.81e-002	1.403e-002
2885	1462	1442	0.3818	2.87e-002	1.433e-002
2886	1463	1443	0.381	2.79e-002	1.393e-002
2887	1463	1443	0.3815	2.84e-002	1.418e-002
2888	1464	1444	0.3831	3.e-002	1.498e-002
2889	1464	1444	0.3834	3.03e-002	1.513e-002
2890	1465	1445	0.3816	2.85e-002	1.423e-002
2891	1465	1445	0.3818	2.87e-002	1.433e-002
2892	1466	1446	0.3876	3.45e-002	1.723e-002
2893	1466	1446	0.3818	2.87e-002	1.433e-002
2894	1467	1447	0.3794	2.63e-002	1.313e-002
2895	1467	1447	0.3833	3.02e-002	1.508e-002
2896	1468	1448	0.3846	3.15e-002	1.573e-002
2897	1468	1448	0.384	3.09e-002	1.543e-002
2898	1469	1449	0.3821	2.9e-002	1.448e-002
2899	1469	1449	0.3803	2.72e-002	1.358e-002
2900	1470	1450	0.3816	2.85e-002	1.423e-002
2901	1470	1450	0.3827	2.96e-002	1.478e-002
2902	1471	1451	0.3824	2.93e-002	1.463e-002
2903	1471	1451	0.3816	2.85e-002	1.423e-002
2904	1472	1452	0.3828	2.97e-002	1.483e-002
2905	1472	1452	0.3855	3.24e-002	1.618e-002
2906	1473	1453	0.3813	2.82e-002	1.408e-002
2907	1473	1453	0.3824	2.93e-002	1.463e-002
2908	1474	1454	0.3803	2.72e-002	1.358e-002
2909	1474	1454	0.3815	2.84e-002	1.418e-002
2910	1475	1455	0.3816	2.85e-002	1.423e-002
2911	1475	1455	0.3821	2.9e-002	1.448e-002
2912	1476	1456	0.3803	2.72e-002	1.358e-002
2913	1476	1456	0.3806	2.75e-002	1.373e-002
2914	1477	1457	0.3809	2.78e-002	1.388e-002
2915	1477	1457	0.3803	2.72e-002	1.358e-002
2916	1478	1458	0.3846	3.15e-002	1.573e-002

2917	1478	1458	0.3761	2.3e-002	1.148e-002
2918	1479	1459	0.3812	2.81e-002	1.403e-002
2919	1479	1459	0.3824	2.93e-002	1.463e-002
2920	1480	1460	0.3833	3.02e-002	1.508e-002
2921	1480	1460	0.38	2.69e-002	1.343e-002
2922	1481	1461	0.378	2.49e-002	1.243e-002
2923	1481	1461	0.378	2.49e-002	1.243e-002
2924	1482	1462	0.3822	2.91e-002	1.453e-002
2925	1482	1462	0.3779	2.48e-002	1.238e-002
2926	1483	1463	0.3831	3.e-002	1.498e-002
2927	1483	1463	0.3816	2.85e-002	1.423e-002
2928	1484	1464	0.3812	2.81e-002	1.403e-002
2929	1484	1464	0.3785	2.54e-002	1.268e-002
2930	1485	1465	0.3789	2.58e-002	1.288e-002
2931	1485	1465	0.3776	2.45e-002	1.223e-002
2932	1486	1466	0.3798	2.67e-002	1.333e-002
2933	1486	1466	0.3791	2.6e-002	1.298e-002
2934	1487	1467	0.3791	2.6e-002	1.298e-002
2935	1487	1467	0.3815	2.84e-002	1.418e-002
2936	1488	1468	0.3801	2.7e-002	1.348e-002
2937	1488	1468	0.3801	2.7e-002	1.348e-002
2938	1489	1469	0.3825	2.94e-002	1.468e-002
2939	1489	1469	0.3771	2.4e-002	1.198e-002
2940	1490	1470	0.3821	2.9e-002	1.448e-002
2941	1490	1470	0.3804	2.73e-002	1.363e-002
2942	1491	1471	0.3797	2.66e-002	1.328e-002
2943	1491	1471	0.3822	2.91e-002	1.453e-002
2944	1492	1472	0.3878	3.47e-002	1.732e-002
2945	1492	1472	0.3792	2.61e-002	1.303e-002
2946	1493	1473	0.3782	2.51e-002	1.253e-002
2947	1493	1473	0.3795	2.64e-002	1.318e-002
2948	1494	1474	0.3804	2.73e-002	1.363e-002
2949	1494	1474	0.3779	2.48e-002	1.238e-002
2950	1495	1475	0.3801	2.7e-002	1.348e-002
2951	1495	1475	0.3764	2.33e-002	1.163e-002
2952	1496	1476	0.38	2.69e-002	1.343e-002
2953	1496	1476	0.3846	3.15e-002	1.573e-002
2954	1497	1477	0.3797	2.66e-002	1.328e-002
2955	1497	1477	0.381	2.79e-002	1.393e-002
2956	1498	1478	0.381	2.79e-002	1.393e-002
2957	1498	1478	0.3803	2.72e-002	1.358e-002
2958	1499	1479	0.3822	2.91e-002	1.453e-002
2959	1499	1479	0.3818	2.87e-002	1.433e-002

APPENDIX H

Waste Manifests

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CESQG	1	704-583-2711	17279

5. Generator's Name and Mailing Address
ECS- Wilkerson Fuel
731 Hwy. 378
Edgefield, SC 29824
Generator's Phone: 704-583-2711

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CM Environmental Services Inc.
U.S. EPA ID Number:

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
CMEG Inc.
917 Industrial Road
Walterboro, SC 29488
Facility's Phone: 843-538-8131

U.S. EPA ID Number: SCR 000 003 442

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Waste Water, #10975 Non-Hazardous/Non-Regulated	003 ~~002~~	DM	EST. 00600	P
2. Waste Soil, #10974 Non-Hazardous/Non-Regulated	044	DM	EST. 30000	P
3.				
4.				

13. Special Handling Instructions and Additional Information
A) 10975 Ref # 14-214210
B) 10974
line 1 is 03 Drums
line 2 is 44 Drums

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Scott D. Bridgeman
Signature: Scott D. Bridgeman
Month 10 Day 22 Year 10

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: John C. Markowski
Signature: John C. Markowski
Month 10 Day 22 Year 10

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Eugene D. Gregorich
Signature: Eugene D. Gregorich
Month 10 Day 21 Year 10

169-BLS-C 6 10497 (Rev. 8/06)

DESIGNATED FACILITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: CESQG	2. Page 1 of 1	3. Emergency Response Phone: 704-583-2711	4. Waste Tracking Number: 17277

5. Generator's Name and Mailing Address

ECS- WILKERSON FUEL
731 HIGHWAY 378
EDGEFIELD, SC 29824

Generator's Phone: 704 583-2711

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: CM ENVIRONMENTAL — U.S. EPA ID Number:

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address — U.S. EPA ID Number: SCR000003442

CMEG, INC.
917 INDUSTRIAL ROAD
WALTERBORO, SC 29488

Facility's Phone: (843) 538-8131

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. WASTE WATER, #10975, REF# 14-214210 NON HAZARDOU/NON REGULATED	003 ~~007~~	3 DM	EST. 02100	~~P~~
2. WASTE SOIL, #10974, REF #14-214210 NON HAZARDOUS/NON REGULATED	40 ~~036~~	40 DM	EST. 20000	P
3.				
4.				

13. Special Handling Instructions and Additional Information

A: 10975 REFERENCE #14-214210
B: 10974
C:
D:

line 1 is 03 Drums
line 2 is 40 Drums

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Scott D. Bridgeman — Signature: Scott D. Bridgeman — Month 10 Day 22 Year 10

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: John C. Markowski — Signature: John C. Markowski — Month 10 Day 22 Year 10

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Mark Regelin — Signature: Mark Regelin — Month 10 Day 22 Year 10

169-BLS-C6 10497 (Rev. 8/06) DESIGNATED FACILITY TO GENERATOR

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

GENERATOR

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CESQG	1	704-583-2711	17451

5. Generator's Name and Mailing Address

ECS- WILKERSON FUEL
731 HIGHWAY 378
EDGEFIELD, SC 29824

Generator's Site Address (if different than mailing address)

Generator's Phone: 704 583-2711

6. Transporter 1 Company Name: CM Environmental Services
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address

CMEG, INC.
917 INDUSTRIAL ROAD
WALTERBORO, SC 29488

Facility's Phone: (843) 538-8131

U.S. EPA ID Number: SCR000003442

9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1. WASTE WATER, #10975, REF# 14-214210 NON HAZARDOU/NON REGULATED	02	DM	0800	P
2. WASTE SOIL, #10974, REF #14-214210 NON HAZARDOUS/NON REGULATED	33	DM	3300	P
3.				
4.				

13. Special Handling Instructions and Additional Information

A: 10975 REFERENCE 14-214210
B: 10974
C:
D:

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Scott D. Bridgeman	Scott D. Bridgeman	12	14	10

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Transporter 1: John C. Markowski	[signature]	12	14	10
Transporter 2:				

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year
Dean Litchfield	Dean Litchfield	12	14	10

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February 17, 2011

UST
FEB 2 2 2011
PROGRAM

Ms. Debra Thoma
SCDHEC
UST Program
2600 Bull Street
Columbia, SC 29201

RE: Project: 378 TRUCK STOP 07960
Pace Project No.: 9287984

Dear Ms. Thoma:
Enclosed are the analytical results for sample(s) received by the laboratory on February 16, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,
Erin R. Waters for
Renee Spencer

renee.spencer@pacelabs.com
Project Manager

Enclosures

37
UST
DOCKET

REPORT OF LABORATORY ANALYSIS

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CTR

CERTIFICATIONS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9287984

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

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SAMPLE SUMMARY

Project: 378 TRUCK STOP 07960
Pace Project No.: 9287984

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9287984001	**WSW1 PRE GAC**	Water	02/14/11 14:00	02/16/11 16:20
9287984002	**WSW1 POST GAC**	Water	02/14/11 14:10	02/16/11 16:20
9287984003	**WSW8 PRE GAC**	Water	02/14/11 14:30	02/16/11 16:20
9287984004	**WSW8 POST GAC**	Water	02/14/11 14:45	02/16/11 16:20

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SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP 07960
Pace Project No.: 9287984

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9287984001	**WSW1 PRE GAC**	EPA 8260	MCK	21	PASI-C
9287984002	**WSW1 POST GAC**	EPA 8260	MCK	21	PASI-C
9287984003	**WSW8 PRE GAC**	EPA 8260	MCK	21	PASI-C
9287984004	**WSW8 POST GAC**	EPA 8260	MCK	21	PASI-C

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HITS ONLY

Project: 378 TRUCK STOP 07960
Pace Project No.: 9287984

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
9287984001	**WSW1 PRE GAC**					
EPA 8260	tert-Butyl Alcohol	5.8J	ug/L	100	02/17/11 10:17	
EPA 8260	1,2-Dichloroethane	0.41J	ug/L	1.0	02/17/11 10:17	
9287984003	**WSW8 PRE GAC**					
EPA 8260	tert-Amyl Alcohol	135	ug/L	100	02/17/11 11:08	
EPA 8260	tert-Butyl Alcohol	7.5J	ug/L	100	02/17/11 11:08	
EPA 8260	1,2-Dichloroethane	5.1	ug/L	1.0	02/17/11 11:08	
EPA 8260	Methyl-tert-butyl ether	0.55J	ug/L	1.0	02/17/11 11:08	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9287984

Sample: WSW1 PRE GAC **Lab ID: 9287984001** Collected: 02/14/11 14:00 Received: 02/16/11 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		02/17/11 10:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/17/11 10:17	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		02/17/11 10:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/17/11 10:17	624-95-3	
tert-Butyl Alcohol	**5.8J**	ug/L	100	3.6	1		02/17/11 10:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/17/11 10:17	762-75-4	
1,2-Dichloroethane	**0.41J**	ug/L	1.0	0.12	1		02/17/11 10:17	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/17/11 10:17	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		02/17/11 10:17	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/17/11 10:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/17/11 10:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		02/17/11 10:17	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		02/17/11 10:17	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		02/17/11 10:17	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/17/11 10:17	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		02/17/11 10:17	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		02/17/11 10:17	95-47-6	
4-Bromofluorobenzene (S)	94	%	70-130		1		02/17/11 10:17	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		02/17/11 10:17	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/17/11 10:17	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		02/17/11 10:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9287984

Sample: WSW1 POST GAC **Lab ID: 9287984002** Collected: 02/14/11 14:10 Received: 02/16/11 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		02/17/11 10:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/17/11 10:43	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		02/17/11 10:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/17/11 10:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		02/17/11 10:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/17/11 10:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/17/11 10:43	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/17/11 10:43	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		02/17/11 10:43	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/17/11 10:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/17/11 10:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		02/17/11 10:43	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		02/17/11 10:43	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		02/17/11 10:43	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/17/11 10:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		02/17/11 10:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		02/17/11 10:43	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		02/17/11 10:43	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		02/17/11 10:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/17/11 10:43	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/17/11 10:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9287984

Sample: WSW8 PRE GAC **Lab ID: 9287984003** Collected: 02/14/11 14:30 Received: 02/16/11 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**135**	ug/L	100	50.0	1		02/17/11 11:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/17/11 11:08	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		02/17/11 11:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/17/11 11:08	624-95-3	
tert-Butyl Alcohol	**7.5J**	ug/L	100	3.6	1		02/17/11 11:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/17/11 11:08	762-75-4	
1,2-Dichloroethane	**5.1**	ug/L	1.0	0.12	1		02/17/11 11:08	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/17/11 11:08	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		02/17/11 11:08	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/17/11 11:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/17/11 11:08	637-92-3	
Methyl-tert-butyl ether	**0.55J**	ug/L	1.0	0.21	1		02/17/11 11:08	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		02/17/11 11:08	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		02/17/11 11:08	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/17/11 11:08	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		02/17/11 11:08	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		02/17/11 11:08	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130		1		02/17/11 11:08	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		02/17/11 11:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/17/11 11:08	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/17/11 11:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9287984

Sample: WSW8 POST GAC **Lab ID: 9287984004** Collected: 02/14/11 14:45 Received: 02/16/11 16:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		02/17/11 11:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/17/11 11:34	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		02/17/11 11:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/17/11 11:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		02/17/11 11:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/17/11 11:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/17/11 11:34	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/17/11 11:34	108-20-3	
Ethanol	ND	ug/L	200	33.0	1		02/17/11 11:34	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/17/11 11:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/17/11 11:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		02/17/11 11:34	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		02/17/11 11:34	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		02/17/11 11:34	108-88-3	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/17/11 11:34	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		02/17/11 11:34	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		02/17/11 11:34	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130		1		02/17/11 11:34	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		02/17/11 11:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/17/11 11:34	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		02/17/11 11:34	2037-26-5	

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(336)623-8921

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2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960
Pace Project No.: 9287984

QC Batch: MSV/14074 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 9287984001, 9287984002, 9287984003, 9287984004

METHOD BLANK: 565560 — Matrix: Water
Associated Lab Samples: 9287984001, 9287984002, 9287984003, 9287984004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	0.13J	1.0	02/17/11 03:07	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	02/17/11 03:07	
Benzene	ug/L	ND	1.0	02/17/11 03:07	
Diisopropyl ether	ug/L	ND	1.0	02/17/11 03:07	
Ethanol	ug/L	ND	200	02/17/11 03:07	
Ethyl-tert-butyl ether	ug/L	ND	10.0	02/17/11 03:07	
Ethylbenzene	ug/L	ND	1.0	02/17/11 03:07	
m&p-Xylene	ug/L	ND	2.0	02/17/11 03:07	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/17/11 03:07	
Naphthalene	ug/L	ND	1.0	02/17/11 03:07	
o-Xylene	ug/L	0.60J	1.0	02/17/11 03:07	
tert-Amyl Alcohol	ug/L	ND	100	02/17/11 03:07	
tert-Amylmethyl ether	ug/L	ND	10.0	02/17/11 03:07	
tert-Butyl Alcohol	ug/L	ND	100	02/17/11 03:07	
tert-Butyl Formate	ug/L	ND	50.0	02/17/11 03:07	
Toluene	ug/L	ND	1.0	02/17/11 03:07	
Xylene (Total)	ug/L	ND	2.0	02/17/11 03:07	
1,2-Dichloroethane-d4 (S)	%	103	70-130	02/17/11 03:07	
4-Bromofluorobenzene (S)	%	95	70-130	02/17/11 03:07	
Dibromofluoromethane (S)	%	109	70-130	02/17/11 03:07	
Toluene-d8 (S)	%	95	70-130	02/17/11 03:07	

LABORATORY CONTROL SAMPLE: 565561

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.2	90	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	884	88	70-130	
Benzene	ug/L	50	52.4	105	70-130	
Diisopropyl ether	ug/L	50	46.5	93	70-130	
Ethanol	ug/L	2000	2080	104	70-130	
Ethyl-tert-butyl ether	ug/L	100	81.5	82	70-130	
Ethylbenzene	ug/L	50	53.1	106	70-130	
m&p-Xylene	ug/L	100	112	112	70-130	
Methyl-tert-butyl ether	ug/L	50	43.8	88	70-130	
Naphthalene	ug/L	50	51.5	103	70-130	
o-Xylene	ug/L	50	51.3	103	70-130	
tert-Amyl Alcohol	ug/L	1000	772	77	70-130	
tert-Amylmethyl ether	ug/L	100	94.3	94	70-130	
tert-Butyl Alcohol	ug/L	500	464	93	70-130	
tert-Butyl Formate	ug/L	400	326	81	70-130	
Toluene	ug/L	50	50.1	100	70-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: 378 TRUCK STOP 07960
Pace Project No.: 9287984

LABORATORY CONTROL SAMPLE: 565561

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	163	109	70-130	
1,2-Dichloroethane-d4 (S)	%			86	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Dibromofluoromethane (S)	%			89	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 565562 565563

Parameter	Units	9287984004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	51.8	51.5	104	103	70-130	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	681	663	68	66	70-130	3	30	M0
Benzene	ug/L	ND	50	50	62.6	63.5	125	127	70-130	1	30	
Diisopropyl ether	ug/L	ND	50	50	53.3	54.6	107	109	70-130	2	30	
Ethanol	ug/L	ND	2000	2000	1690	1750	85	88	70-130	4	30	
Ethyl-tert-butyl ether	ug/L	ND	100	100	105	107	105	107	70-130	2	30	
Ethylbenzene	ug/L	ND	50	50	58.5	57.6	117	115	70-130	2	30	
m&p-Xylene	ug/L	ND	100	100	126	123	126	123	70-130	2	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	51.4	51.7	103	103	70-130	1	30	
Naphthalene	ug/L	ND	50	50	41.0	40.3	82	81	70-130	2	30	
o-Xylene	ug/L	ND	50	50	57.2	57.1	114	114	70-130	0	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	901	906	90	91	70-130	1	30	
tert-Amylmethyl ether	ug/L	ND	100	100	123	122	123	122	70-130	0	30	
tert-Butyl Alcohol	ug/L	ND	500	500	1070	1060	213	212	70-130	1	30	M0
tert-Butyl Formate	ug/L	ND	400	400	25.1J	18.4J	6	5	70-130		30	P5
Toluene	ug/L	ND	50	50	59.3	58.4	119	117	70-130	2	30	
1,2-Dichloroethane-d4 (S)	%						94	96	70-130			
4-Bromofluorobenzene (S)	%						95	94	70-130			
Dibromofluoromethane (S)	%						97	108	70-130			
Toluene-d8 (S)	%						95	94	70-130			

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QUALIFIERS

Project: 378 TRUCK STOP 07960
Pace Project No.: 9287984

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 TRUCK STOP 07960
Pace Project No.: 9287984

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9287984001	**WSW1 PRE GAC**	EPA 8260	MSV/14074		
9287984002	**WSW1 POST GAC**	EPA 8260	MSV/14074		
9287984003	**WSW8 PRE GAC**	EPA 8260	MSV/14074		
9287984004	**WSW8 POST GAC**	EPA 8260	MSV/14074		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1351569

Section A
Required Client Information:

Company:	SCDHEC
Address:	2600 Bull St
	Columbia, SC 29201
Email To:	ThomaDL@dhec.sc.gov
Phone:	Fax: 896-6245
Requested Due Date/TAT:	24 hr.

Section B
Required Project Information:

Report To:	Cathleen Ridgley
Copy To:	Debra Thoma
Purchase Order No.:	4500011309
Project Name:	378 Truck Stop
Project Number:	07960 CA 41080

Section C
Invoice Information:

Attention:	Robertha Corsey
Company Name:	SCDHEC
Address:	2600 Bull St. Cola, SC
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	849-5

REGULATORY AGENCY

- [ ] NPDES
- [ ] GROUND WATER
- [ ] DRINKING WATER
- [x] UST
- [ ] RCRA
- [ ] OTHER ______

Site Location STATE: SC

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX,N,MTBE,8oxy,1,2DCA	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9287984
1	WSW1 PreGAC	DW	G			2/14/11	200		4				✓						✓		9287984001
2	WSW1 post GAC	DW	G			2/14/11	210		4				✓						✓		002
3	WSW8 pre GAC	DW	G			2/14/11	230		4				✓						✓		003
4	WSW8 post GAC	DW	G			2/14/11	245		4				✓						✓		004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
24 hour TA	Cathleen Ridgley	2/16/11	9:10	D Moody - Pace	2-16-11	9:10				
Low Detection Limit	D Moody	2-16-11	16:20	[illegible] Pace	2/16/11	1620	3.1	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

3

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cathleen Ridgley

SIGNATURE of SAMPLER: Cathleen Ridgley

DATE Signed (MM/DD/YY): 2/14/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

D H E C
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C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

38tech
UST
DOCKET

MAR 02 2011

MR FRANK WILKERSON
WILKERSON FUEL COMPANY INC
P O BOX 2835
ROCK HILL SC 29732-4835

Re: AFVR and Groundwater Sampling Directive
378 Truck Stop, 731 Hwy 378, Edgefield, SC
UST Permit # 07960, Cost Agreement # 41112
Release reported October 3, 1974
Tier II Assessment Report received January 18, 2011
Edgefield County

Dear Mr. Wilkerson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the file and the next necessary scope of work is one Aggressive Fluid/Vapor Recovery (AFVR) event to reduce free product from monitoring well MW-1. Approximately one month after completion of the AFVR event, a comprehensive groundwater sampling event should be completed to obtain current data.

Samples from all monitoring wells and water supply wells should be collected and analyzed for BTEX, naphthalene, MTBE, 1,2-DCA, and the 8-oxygenates by EPA method 8260B, and EDB by EPA Method 8011. Purging will not be required for existing monitoring wells where the water table is bracketed by the screen. Please have your contractor request low detection limits/reporting levels for all analyses. The use of "J" values is encouraged. Note that a non-detect analysis where the detection limit/reporting level exceeds the risk-based screening level (RBSL) is inconclusive. In this case, SUPERB payment may be denied since the analysis cannot be used as the basis for a decision.

The UST Division will no longer reimburse costs for oxygenate analysis for any laboratory that is not certified through the SCDHEC Office of Environmental Laboratory Certification. Detailed information regarding the oxygenate certification can be found on the UST Guidance Documents webpage. (http://www.scdhec.gov/environment/envserv/docs/OxygenateCertification.pdf. The document can also be accessed from the UST documents page at http://www.scdhec.net/environment/ lwm/forms/). Any laboratory with questions regarding the certification requirements should contact the Office of Environmental Laboratory Certification at (803) 896-0970.

Cost Agreement # 41112 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. The AFVR and groundwater sampling activities may proceed immediately upon receipt of this letter. The AFVR/Groundwater Sampling Report submitted at the completion of these activities should include the following:

- A narrative portion documenting the AFVR event noting site conditions, the name of the AFVR contractor, field personnel, date, time the AFVR event started and ended, ambient air temperature, and general weather conditions during the AFVR event.
- A brief description of the completed work scope and any relevant descriptions pertaining to the data tables.
- A table summarizing the airflow (in CFM) and volatile air emissions concentrations collected from the stack of the truck every thirty minutes through the duration of the events. The table shall also document which well(s) were being recovered from during that time interval.

- A table summarizing the magnehelic gauge measurements from all applicable wells on a thirty-minute time interval.
- The total volume of water recovered (gallons).
- The total volume of free phase product recovered (typically measured with a product/water interface device inserted into the top of the tanker at the completion of the event and then converted to an approximate volume).
- The total weight of petroleum removed as vapor. This is calculated based on the airflow rate and the concentration of vapor.
- A table documenting the free product thickness in each well before and after the recovery events.
- Scaled base map depicting the location of the extraction wells and the surrounding wells equipped with magnehelic gauges.
- A narrative portion documenting current site conditions during the groundwater sampling event noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event. The report shall also contain well purging data, pH, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments.
- Groundwater elevations, depth to groundwater, measurable free product thickness (where applicable), total well depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the Division, shall be presented in tabular form. Historical and current groundwater laboratory analytical data for all monitoring wells shall be presented in tabular format.
- A groundwater elevation contour map of the site based on current groundwater potentiometric data.
- A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well location.
- Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.
- Signature and seal by a professional geologist or engineer registered in the State of South Carolina.

Environmental Compliance Services (ECS), Inc. can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

An AFVR/groundwater monitoring report and invoice are due within 90 days from the date of this letter. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Division for the cost to be paid. The SCDHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The Department grants pre-approval for transportation of virgin petroleum impacted groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the COC concentrations, based on laboratory analysis, are below Risk Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence or inquiries regarding this project, please reference UST Permit # 07960. If you have any questions, please feel free to contact me by phone at (803) 896-6633, by fax at (803) 896-6245, or email at ridglect@dhec.sc.gov.

Sincerely,

Cathleen Ridgley

Cathleen Ridgley, Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

enc: Cost Agreement

cc: ECS, Inc., PO Box 3528, Fort Mill, SC 29708 (w/enc)
Technical File (w/o enc)

Approved Cost Agreement 41112

Facility: 07960 378 TRUCK STOP
RIDGLECT
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		A	EQUIPMENT	1.0000	575.00	575.00
		B	PERSONNEL	3.0000	290.00	870.00
10 SAMPLE COLLECTION						
		A	GROUND WATER	10.0000	55.00	550.00
		C	WATER SUPPLY	17.0000	25.00	425.00
		D	GROUNDWATER NO-PURGE	27.0000	35.00	945.00
11 ANALYSES						
	GW GROUNDWATER	A	BTEX+NAPTH+MTBE	54.0000	100.00	5,400.00
		BB	1,2-DCA	54.0000	10.75	580.50
		F	EDB	54.0000	55.00	2,970.00
		P	8 OXYGENATES	54.0000	85.00	4,590.00
17 DISPOSAL						
		A1	WASTEWATER - PURGING/SAMPLING	3.0000	90.00	270.00
		A2	WASTEWATER - PUMPING TEST	1,500.0000	0.60	900.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PCT	PERCENT	0.1500	21,355.50	3,203.33
23 EFR						
		A	8 HOUR EVENT	1.0000	3,000.00	3,000.00
		C	OFF GAS TREATMENT	8.0000	35.00	280.00
					Total Amount	24,558.83

DHEC

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South Carolina Department of Health and Environmental Control

Community Update

Former Highway 378 Truck Stop

Edgefield County, South Carolina

March 2011

UST DOCKET

39 TECH

Overview

In December 2010, DHEC (South Carolina Department of Health & Environmental Control) met with citizens living near the old Highway 378 Truck Stop to inform them of activities being conducted in the area to assess a gasoline release from an old underground storage tank at the former truck stop.

The following information is being provided by DHEC to update you on cleanup activities since the community meeting.

Recent Activity

On March 16, 2011, a contractor, Environmental Compliance Services (ECS), Inc., under the direction of DHEC, conducted Aggressive Fluid and Vapor Recovery (AFVR) on monitoring well MW-1. AFVR is a technology that uses a high-pressure mobile vacuum truck to recover gasoline from the groundwater and gasoline vapors from the soil above the water table. MW-1 is located on the property of the former truck stop and is the only monitoring well that contains gasoline as free product. Prior to the AFVR, the well contained less than ¼ inch of gasoline. There are a total of 38 monitoring wells located at and around the former truck stop.

Next Steps

Thirty days after the AFVR, all monitoring wells and previously sampled drinking water wells will be sampled again for gasoline chemicals to see how effective the AFVR was in removing gasoline from the groundwater and to provide current water quality data.

ECS, Inc. is expected to submit a report to DHEC on the AFVR and groundwater sampling by June 1, 2011. After review of the report, DHEC plans to hold a meeting with the community to discuss the next steps for cleanup. The meeting will most likely occur mid-summer or early fall of 2011.

If you have any questions or would like additional information, please contact any of the following DHEC staff:

Cathleen Ridgley,
Hydrogeologist
DHEC Columbia Office
(803) 896-6633
ridglect@dhec.sc.gov

Donna Rowe,
Community Liaison
DHEC Greenwood Office
(864) 223-0333
rowedh@dhec.sc.gov

Chris McCluskey,
Director
DHEC Greenwood Office
(864) 223-0333
mccluscd@dhec.sc.gov

DHEC

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C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

Colleen

40lech

UST DOCKET

March 25, 2011

Mr. & Mrs. Dennis Wall
143 Virgil Wall Road
Edgefield, South Carolina 29824

Dear Mr. & Mrs. Wall:

As requested, I am writing to give you a synopsis of the former Highway 378 Truck Stop (site) groundwater contamination cleanup project.

On December 13, 2010, DHEC met with citizens living near the site to discuss the cleanup project. The purpose of the meeting was to inform citizens of activities being conducted in the area to assess and cleanup a gasoline release from an old underground storage tank at the former truck stop.

Gasoline chemicals were first discovered in the groundwater near the site in the 1970s. At that time, DHEC funded the installation of new drinking water wells for the property owners whose wells contained gasoline. DHEC continues to monitor these wells to ensure safe drinking water for the residents.

In May 2010, 15 drinking water wells were sampled and no gasoline chemicals were found. In October 2010, additional sampling revealed that gasoline chemicals were present in 2 drinking water wells. DHEC installed a Granular Activated Carbon (GAC) unit on one well because it exceeded the safe drinking water standards. A second GAC unit was installed on another well as a precaution because chemicals were found in the well water; however they were not at levels that exceeded the State or Federal safe drinking water standards. The GAC units are designed to filter gasoline and other chemicals from well water.

On March 16, 2011, a contractor, Environmental Compliance Services (ECS), Inc., under the direction of DHEC, conducted Aggressive Fluid and Vapor Recovery (AFVR) on monitoring well MW-1. AFVR is a technology that uses a high-pressure mobile vacuum truck to recover gasoline from the groundwater and gasoline vapors from the soil above the water table. MW-1 is located on the site property and is the only monitoring well that contains gasoline as free product (a layer of gasoline that is floating on top of the water table). Prior to the AFVR, the well contained less than ¼ inch of gasoline.

Around the middle of April (30 days after the AFVR), all monitoring wells and previously sampled drinking water wells will be sampled again for gasoline chemicals. The results of this sampling will show how effective the AFVR was in removing gasoline from the groundwater and, of course, provide current water quality data. ECS, Inc. is expected to submit a report to DHEC on the AFVR and groundwater sampling by June 1, 2011.

After review of the report, DHEC plans to hold a meeting with the community to discuss the next steps for cleanup.

07960

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C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

I know your family is interested in seeking public water for your community. Chris McCluskey and Uwe Klauck in DHEC's Greenwood office met with Edgefield County Water and Sewer Authority (ECWSA) personnel to discuss the situation in your community. ECWSA personnel shared a feasibility study, completed approximately 1 ½ years ago, with Chris and Uwe. The study addressed providing water to an area 1 or 2 miles east of the site. Unfortunately, through this study ECWSA determined that even if they were able to obtain the typical grants for this type of project, they would not have the necessary funds to construct the waterlines.

While DHEC cannot dictate where local municipalities choose to run waterlines or other infrastructure, we are willing to assist with environmental and/or health related issues pertaining to this or any other site in South Carolina. I encourage you to talk with your elected officials to see if they can help secure the resources to move this project forward.

If you have any additional questions, please feel free to contact me at (864) 223-0333, or by e-mail at rowedh@dhec.sc.gov.

Sincerely,

Donna H. Rowe
Regional Community Liaison

cc: Cathleen Ridgley, DHEC
Christopher McCluskey, DHEC
Uwe Klauck, DHEC

D H E C
PROMOTE PROTECT PROSPER
C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

4/dech
UST DOCKET

April 12, 2011

HATTIE SCURRY
730 HWY 378 EAST
EDGEFIELD, SC 29824-4102

Re: Reimbursement For Bottled Water Purchase
378 Truck Stop, 731 Hwy 378 E, Edgefield, SC
UST Permit # 07960; Cost Agreement # 40679
Edgefield County

Dear Ms. Scurry:

I am sending you an invoice form for your signature in order to reimburse you for the costs of your purchases of bottled drinking water. Please return the form to my attention as soon as possible to:

UST Management Division
Attn: Cathleen Ridgley
2600 Bull Street
Columbia, SC 29201

As you are aware your drinking water well was disinfected on March 25th and 26th of this year, and a new Granular Activated Carbon (GAC) Unit was installed on your well on March 28th. Your tap water is safe to consume and bathe in and will continue to be sampled and analyzed for petroleum chemicals. A report with the findings will be provided to you after each sampling event. South Carolina Department of Health and Environmental Control will no longer reimburse you for the costs of bottled water.

If you have any questions or concerns, please call me at (803) 896-6633.

Sincerely,

Cathleen Ridgley

Cathleen Ridgley, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Invoice Form

cc: Technical File

D H E C
PROMOTE PROTECT PROSPER
South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT INVOICE

SOUTH CAROLINA
Department of Health and Environmental Control (DHEC)
Underground Storage Tank Program

ASSESSMENT COMPONENT INVOICE

****See Back of form for instruction ****

UST PERMIT # 07960 COUNTY Edgefield
FACILITY NAME 378 Truck Stop
STREET ADDRESS 731 Hwy 378 E, Edgefield, SC
INVOICE # ______ **COST AGREEMENT #** 40679
For work performed during (specify time period) 11/29/10 to 4/1/11

> I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible obtaining this information, and any other information I may be aware of, I believe that the submitted information is true, accurate, and complete. I further agree, in accordance with any DHEC demand letter, to promptly repay any overpayment received.

Please fill out **BOTH the Contractor and Responsible Party Sections (original signatures). Also indicate the Payee by placing a check in the box next to the Contractor or Responsible Party.**

Payee
[redacted] ~~CONTRACTOR~~ Property Owner
Hattie Scurry
Name (Type or Print) ______
(803) 637-5793
Company Telephone Number
730 Hwy 378, Edgefield, SC 29824
Address City State Zip Code

Sign Here *
Signature (please use non-black ink) Title Date Signed

Payee
☐ OWNER OR OPERATOR/RESPONSIBLE PARTY **Please attach copies of Cancelled Checks (front & back)**

Name (type or Print) Federal Tax ID or Social Security Number

Company Telephone Number

Address City State Zip Code

Signature (please use non-black ink) Title Date Signed

If payment is to be sent to an address other than above, please indicate below:

Name of Individual or Company (please print) Federal Tax ID or Social Security Number

Address (please print) City State Zip Code

INVOICE AMOUNT: $ 20.81

LESS SUBMITTED/PAID WELL DRILLING COSTS $ ______

AMOUNT REQUESTED: $ 20.81

SCDHEC USE ONLY
$

Amount Requested is for Assessment activities as Defined in the SCDHEC Letter.

INVOICE INVOICE INVOICE INVOICE

DHEC 3664 (rev 12/20/2005)

ecs WHERE BUSINESS AND THE ENVIRONMENT CONVERGE

13504 South Point Boulevard, Unit F, Charlotte, NC 28273 tel 704.583.2711 fax 704.583.2744 www.ecsconsult.com

April 13, 2011
ECS Project No. ~~14-2142~~10
UST Permit No. 07960

UST DOCKET 4/24/ch

UST APR 14 2011 PROGRAM

Ms. Cathleen Ridgley
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Re: WSW-1 Disinfection
378 Truck Stop
731 Highway 378
Edgefield, South Carolina 29824
Edgefield County

Dear Ms. Ridgley:

Environmental Compliance Services, Inc. (ECS), on behalf of Wilkerson Fuel Company, Inc., contracted Kay Plumbing Services LLC to disinfect private water supply well WSW-1 at Ms. Hattie Scurry's residence, located at 730 Highway 378, Edgefield, SC. This work was conducted at the request of the South Carolina Department of Health and Environmental Control (SCDHEC) in response to concentrations of total coliform identified in water samples collected throughout the private water supply system.

Konrad Orzechowski of Kay Plumbing Services LLC mobilized to the site on March 25, 2011 and completed the disinfection process on March 26, 2011. Kay Plumbing Services LLC's standard disinfection procedure is below:

- Mix 2 quarts bleach in 10 gallons of water; pour into well.
- Connect a garden hose to a nearby faucet and wash down the inside of the well.
- Open each faucet and let the water run until a strong chlorine odor is detected, then turn it off and go to the next one. Don't forget outdoor faucets and hydrants. Drain the water heater and let it refill with chlorinated water. If a strong odor is not detected at all outlets, add more chlorine to the well.(if you have an impaired sense of smell, use chlorine test strips sold with swimming pool supplies to detect chlorine at each outlet.)
- Flush the toilets.
- Mix an additional 2 quarts bleach in 10 gallons of water. Pour it into the well without pumping.
- Allow chlorinated water to stand in the well and pipes for at least 8 hours (preferably 12 to 24 hours).
- Run water from outdoor faucets to waste (away from desirable vegetation) until the chlorine odor is slight or not detected at each faucet. Then run indoor faucets until there is no chlorine odor. Minimize the amount of chlorinated water flowing into a septic tank.

Printed on recycled, carbon neutral paper

Please contact the undersigned at 704-583-2711 or email cdupuis@ecsconsult.com if you have any questions or require additional information.

Sincerely,
ENVIRONMENTAL COMPLIANCE SERVICES, INC.

Chut E Dp

Christine E. Dupuis
Project Manager

Enclosures

cc: Mr. Frank Wilkerson, Wilkerson Fuel Company, PO Box 2835, Rock Hill, SC 29732

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AFVR & GROUNDWATER SAMPLING REPORT

378 Truck Stop
731 Highway 378
Edgefield, South Carolina
Edgefield County

UST Permit No. 07960
ECS Project No. 14-214210

Prepared for:
Wilkerson Fuel Company, Inc.
PO Box 2835
Rock Hill, South Carolina 29732

Presented to:
Ms. Cathleen Ridgley
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201-1708

Prepared by:
Environmental Compliance Services, Inc.
13504 South Point Blvd, Unit F
Charlotte, North Carolina 28273
SC Certification No. 358

May 18, 2011

Christine E. Dupuis
Project Manager

CRAIG L. KENNEDY
REGISTERED
No. 2425
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

Craig L. Kennedy, P.G.
SC License No. 2425

This report presents the results of Aggressive Fluid/Vapor Recovery (AFVR) and groundwater sampling activities conducted by Environmental Compliance Services, Inc. (ECS) in March through May 2011 at the 378 Truck Stop site (**Figure 1** and **Figure 2**). These activities were conducted in accordance with Cost Agreement No. 41112 as approved by the South Carolina Department of Health and Environmental Control (SCDHEC) in correspondence dated March 2, 2011. The following Tables, Figures, and Appendices are attached:

- Table 1: Summary of Groundwater Elevation Data Aggressive Fluid/Vapor Recovery Events
- Table 2: Summary of Aggressive Fluid/Vapor Recovery Information
- Table 3: Summary of Adjacent Property Owners and Addresses
- Table 4: Summary of Groundwater Elevation Data
- Table 5: Summary of Groundwater Analytical Data – Chemicals of Concern
- Table 6: Summary of Groundwater Analytical Data – Eight Oxygenates
- Figure 1: Site Locus
- Figure 2: Site Plan
- Figure 3: Groundwater Elevation Map – Shallow
- Figure 4: Groundwater Elevation Map – Deep
- Figure 5: Groundwater Quality Map – CoC
- Figure 6: Groundwater Quality Map – Oxygenates
- Appendix A: AFVR Event Field Data Sheets, Emission Calculations and Disposal Manifest – March 16, 2011
- Appendix B: Groundwater Sampling Field Data Sheets
- Appendix C: Laboratory Analytical Reports – Groundwater Samples-April and May 2011

Site Information

The site was not in use at the time of our March through May 2011 field activities. An abandoned building was present onsite during our visits associated with the AFVR and groundwater sampling activities. A concrete slab was located directly to the east of, and abutting, the onsite building.

A release at the site was reported on October 3, 1974 and was confirmed on July 8, 1996. Reportedly, one 550-gallon diesel, one 1,000-gallon gasoline, and one 2,000-gallon gasoline underground storage tanks (USTs) and their associated piping and dispensers were removed from the site on January 1, 1987. The site did not contain USTs at the time of our 2011 activities.

AFVR Event – March 16, 2011

An AFVR event was performed at monitoring well MW-1 on March 16, 2011 by A&D Environmental and Industrial Services, Inc. (A&D) with activity monitoring provided by Brentley McNeill of ECS. Prior to the start of the event, the depths to free product and groundwater were measured in shallow monitoring well MW-1. Free product was measured in well MW-1 at a depth of 25.53 feet below top of casing (TOC). Groundwater was measured in MW-1 at a depth of 25.55 feet below TOC. Monitoring wells MW-3, MW-7, and MW-21 were used to obtain gauging data and vacuum radius of influence measurements. This AFVR event consisted of one vacuum truck extracting fluids and vapors from monitoring well MW-1 for approximately eight hours. Measurements of vacuum, air velocity, temperature, and off-gas concentration readings were collected at 15-minute intervals during the first two hours and at 30-minute intervals during the remainder of the event.

The truck vacuum readings averaged 20 inches of mercury over the course of the event. The air velocity rates averaged 4,096 ft/minute from the discharge stack over the course of the event. The organic vapor concentrations recovered from monitoring well MW-1 were measured at the truck's discharge stack using the Bacharach TLV Sniffer, and averaged 12 parts per million (ppm) during the event. The stinger was adjusted multiple times throughout the course of the event to maximize vapor recovery. However, minimal change in the TLV readings was observed. The exhaust stack gas temperatures averaged 182.5 degrees Fahrenheit. Measured depth to groundwater in monitoring well MW-1 at the conclusion of the AFVR event was 28.58 feet below TOC. Measured depth to groundwater 20 minutes post-AFVR was 28.58 feet below TOC. Free product was not detected in monitoring well MW-1 during post-AFVR measurements. A summary of groundwater elevation data collected during AFVR activities is presented in **Table 1.** A summary of free product and AFVR data collected from monitoring well MW-1 during AFVR activities is presented in **Table 2.**

The total estimated amount of petroleum products removed as a vapor, based on eight hours of organic vapor measurements and using a conversion factor of 1.02 for benzene, was 0.15 pounds (0.02 gallons). Approximately 233 gallons of liquid were removed from monitoring well MW-1 during the March 16, 2011 AFVR event. Of the 233 gallons removed, there was no measurable free product detected. Field data sheets, emissions calculations and the disposal manifest for the March 16, 2011 AFVR event are included in **Appendix A.**

Well Gauging and Sampling

Shallow monitoring wells MW-1 through MW-28 and telescoping monitoring wells TW-1 through TW-9 were gauged for depths to groundwater on April 19, 2011. Depths to groundwater measured in the shallow monitoring wells ranged from 15.71 feet (MW-18) to 37.72 feet (MW-20). Groundwater elevations in the shallow monitoring wells, relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level, ranged from 70.70 (MW-9) to 80.38 (MW-28). Based on these data, shallow groundwater generally flowed towards the southwest, south, and north away from the subject site. The horizontal hydraulic gradient measured in the southwestern direction from MW-28 to MW-9 was approximately 0.017 feet per foot. The horizontal hydraulic gradient measured in the southern direction from MW-3 to MW-22 was approximately 0.006 feet per foot. The horizontal hydraulic gradient measured in the northern direction from MW-1 to MW-20 was approximately 0.036 feet per foot. A summary of groundwater elevation data is presented in **Table 4.** A Shallow Groundwater Elevation Map based on the April 2011 data has been included as **Figure 3.**

Depths to groundwater measured in the telescoping monitoring wells ranged from 16.83 feet (TW-7) to 27.11 feet (TW-4). Groundwater elevations in the telescoping monitoring wells, relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level, ranged from 71.50 (TW-3) to 81.30 (TW-7). Based on these data, deep groundwater generally flowed towards the west away from the subject site. The horizontal hydraulic gradient measured in the western direction from TW-7 to TW-3 was approximately 0.018 feet per foot. A summary of groundwater elevation data is presented in **Table 4.** A Deep Groundwater Elevation Map based on the April 2011 data has been included as **Figure 4.**

Shallow monitoring wells MW-3 through MW-12, MW-14, MW-15, MW-20, MW-22, MW-24, and MW-27 were sampled without purging in May 2011, as the water table in these wells was bracketed by the screened interval of each well. Shallow monitoring wells MW-1, MW-2, MW-13, MW-16 through MW-19, MW-21, MW-23, MW-25, MW-26, and MW-28, and telescoping wells TW-1 through TW-9 were purged prior to sampling in May 2011, as the water table in these wells was not bracketed by the screened interval of each well or the screened interval was unknown. Water samples were collected in April and May 2011 from private water supply wells WSW-1 pre-GAC, WSW-1 post-GAC, WSW-2 through WSW-4, WSW-6, WSW-7, WSW-8 pre-GAC, WSW-8 post-GAC, WSW-9 through WSW-11, and WSW-13 through WSW-15. Each water supply well was purged at the sample location for approximately 10 minutes prior to sample collection. Samples could not be collected from private water supply wells WSW-5 and WSW-12 as the power to the well pumps was disconnected but the pumps were still in place in the wells. Water supply well information has been included as **Table 3**.

Additional information pertaining to site conditions and field personnel on site during the sampling event can be found in the Groundwater Sampling Field Data Sheets provided as **Appendix B.** The groundwater samples collected from the monitoring wells and water supply wells were analyzed for BTEX constituents (benzene, toluene, ethylbenzene, total xylenes), methyl-tert-butyl-ether (MTBE), 1,2 DCA, oxygenates, and naphthalene using EPA Method 8260B, and 1,2- Dibromoethane (EDB) using EPA Method 8011.

Chemicals of Concern

Concentrations of benzene were reported above the SCDHEC May 2001 Risk Based Screening Level (RBSL) in the groundwater samples collected from monitoring wells MW-1, MW-3, MW-4, MW-7, MW-12, MW-13, MW-16, and MW-22. A concentration of toluene was reported above the RBSL in the groundwater sample collected from monitoring well MW-22. Concentrations of ethylbenzene were reported above the RBSL in the groundwater samples collected from monitoring wells MW-1, MW-3, and MW-22. A concentration of total xylenes was reported above the RBSL in the groundwater sample collected from monitoring well MW-22. Concentrations of naphthalene were reported above the RBSL in the groundwater samples collected from monitoring wells MW-1, MW-3, MW-7, and MW-12. Concentrations of 1,2 DCA were reported above the RBSL in the groundwater samples collected from monitoring wells MW-2, MW-3, MW-7, MW-12, MW-13, and TW-1. Concentrations of EDB were reported above the RBSL in the groundwater samples collected from monitoring wells MW-1, MW-3, MW-7, MW-12, MW-13, and MW-22.

Concentrations of toluene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-1, MW-3, MW-7, MW-12, MW-13, MW-16, and TW-2. Concentrations of ethylbenzene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-4, MW-7, MW-12, MW-13, and MW-16. Concentrations of total xylenes were reported below the RBSL in the groundwater samples collected from monitoring wells MW-1, MW-3, MW-4, MW-7, MW-8, MW-12, MW-13, and MW-16. A concentration of MTBE was reported below the RBSL in the groundwater sample collected from monitoring well TW-1. Concentrations of naphthalene were reported below the RBSL in the groundwater samples collected from monitoring wells MW-4, MW-8, MW-13, and MW-16. Concentrations of 1,2 DCA were reported below the RBSL in the groundwater samples collected from monitoring wells MW-24, MW-27, and TW-6, and water supply well WSW-8 (pre-GAC).

Concentrations of the requested method constituents were not reported above the laboratory reporting limits or method detection limits in the groundwater samples collected from monitoring wells MW-5, MW-6, MW-9 through MW-11, MW-14, MW-15, MW-17 through MW-21, MW-23, MW-25, MW-26, MW-28, TW-3 through TW-5, and TW-7 through TW-9, and water supply wells WSW-1 pre-GAC, WSW-1 post-GAC, WSW-2 through WSW-4, WSW-6, WSW-7, WSW-8 post-GAC, WSW-9 through WSW-11, and WSW-13 through WSW-15.

Eight Oxygenates

Concentrations of TAA were reported above the SCDHEC 2008 Action Level in the groundwater samples collected from monitoring wells MW-3, MW-7, MW-8, MW-13, MW-16, and TW-1.

A concentration of DIPE was reported below the Action Level in the groundwater sample collected from monitoring well TW-1. A concentration of TBA was reported below the Action Level in the groundwater sample collected from monitoring well MW-2. A concentration of TAA was reported below the Action Level in the groundwater sample collected from monitoring well MW-2.

Concentrations of the requested method constituents were not reported above the laboratory reporting limits or method detection limits in the groundwater samples collected from monitoring wells MW-1, MW-4 through MW-6, MW-9 through MW-12, MW-14, MW-15, MW-17 through MW-28, and TW-2 through TW-9, and water supply wells WSW-1 pre-GAC, WSW-1 post-GAC, WSW-2 though WSW-4, WSW-6, WSW-7, WSW-8 pre-GAC, WSW-8 post-GAC, WSW-9 through WSW-11, and WSW-13 through WSW-15.

A summary of the Chemicals of Concern (CoC) data has been included as **Table 5.** A summary of the oxygenate data has been included as **Table 6.** A groundwater quality map showing the contaminants of concern based on the April and May 2011 data has been included as **Figure 5.** A groundwater quality map showing the eight oxygenates based on the April and May 2011 data has been included as **Figure 6.** Groundwater sampling field data sheets from the April and May 2011 sampling event have been included as **Appendix B.** Complete reports of laboratory analyses of groundwater samples collected during the April and May 2011 sampling event, along with chain-of-custody documentation, have been included in **Appendix C.**

Investigative Derived Waste

Investigative derived waste (IDW) generated during the groundwater sampling activities was placed in 55-gallon drums for disposal by a licensed facility. The drums were left onsite and a request for pick-up and disposal of the drummed IDW was generated upon completion of the groundwater sampling activities. A copy of the disposal manifest for the drums of purged well water will be forwarded to the SCDHEC upon our receipt.

Conclusions and Recommendations

The average organic vapor concentration recovered from monitoring well MW-1 during the March 2011 AFVR event was 12 ppm. However, product was not detected in this well during post-AFVR gauging or one month later during the April 2011 groundwater sampling event. Also, the dissolved concentrations reported in monitoring well MW-1 during the April 2011 groundwater sampling event were relatively low compared to other impacted site wells and when considering this well has historically contained free product. Therefore, AFVRs may be a viable remedial option at this site.

Based on the results of the April 2011 groundwater sampling event, elevated dissolved concentrations exist in monitoring wells onsite and south of the site. AFVR events are recommended to help reduce these concentrations in wells MW-1, MW-3, MW-7, MW-12, MW-13, MW-16, and MW-22. A comprehensive groundwater sampling event is recommended following the AFVR events to determine current conditions and determine the efficacy of the remedial efforts.

If you have any questions or require additional information, please contact ECS at (704) 583-2711, or email cdupuis@ecsconsult.com or ckennedy@ecsconsult.com.

TABLES

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA[1]
AGGRESSIVE FLUID/VAPOR RECOVERY EVENTS
378 TRUCK STOP

Well ID	Date Measured	Top of Casing Elevation (ft.)	Depth to Groundwater (ft.)	Depth to Free Product (ft.)	Free Product Thickness (ft.)	Groundwater Elevation[2] (ft.)	Well Depth (ft.)	Screened Interval (ft.)
MW-1	3/16/11 (pre-AFVR)	101.98	25.55	25.53	0.02	76.45	unknown	unknown
	3/16/11 (immediately post-AFVR)		28.58	--	--	73.40		
	3/16/11 (20 minutes post-AFVR)		28.58	--	--	73.40		
MW-3	3/16/11 (pre-AFVR)	101.54	25.86	--	--	75.68	40	10-40
	3/16/11 (immediately post-AFVR)		26.13	--	--	75.41		
	3/16/11 (20 minutes post-AFVR)		26.10	--	--	75.44		
MW-7	3/16/11 (pre-AFVR)	99.72	23.44	--	--	76.28	34.92	19.92-34.92
	3/16/11 (immediately post-AFVR)		22.81	--	--	76.91		
	3/16/11 (20 minutes post-AFVR)		22.89	--	--	76.83		
MW-21	3/16/11 (pre-AFVR)	101.70	24.30	--	--	77.40	40.16	25.16-40.16
	3/16/11 (immediately post-AFVR)		24.23	--	--	77.47		
	3/16/11 (20 minutes post-AFVR)		24.23	--	--	77.47		

Notes:

1. Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level; data reported in feet.
2. Groundwater elevation adjusted for the presence of free product, where present, with an assumed density of 0.75 g/cm^3.

TABLE 2
SUMMARY OF AGGRESSIVE FLUID/VAPOR RECOVERY INFORMATION[1]
378 TRUCK STOP

Well ID	Date	Time[2] (hours)	Average Effluent Velocity[3] (fpm)	Average Effluent Temperature (°F)	Average Effluent Concentration (ppm)	Total Free Product Volatized[4] (gallons)	Total Free Product as Fluid[5] (gallons)	Total Free Product Recovered[6] (gallons)	Total Fluid Volume removed(gallons)
MW-1	3/16/11	8	4,096	182.5	12	0.02	0	0.02	233
Totals		--	--	--	--	0.02	0	0.02	233

Notes:
1. Aggressive Fluid/Vapor Recovery (AFVR) events using vaccum trucks provided by A&D Environmental and Industrial Services, Inc.
2. Duration of the AFVR event at well location.
3. Cross-sectional area of exhaust stack is 0.19 sq. ft.
4. Total Volatized in gallons = Air emissions in pounds/(6.25 lbs./gal.)
5. Total Free Product as Fluid is obtained from disposal manifest and/or correspondence with subcontractors from each AFVR event.
6. Total Free Product Recovered = Total Free Product Volatized + Total Free Product as Fluid.

TABLE 3
SUMMARY OF ADJACENT PROPERTY OWNERS AND ADDRESSES[1]
378 TRUCK STOP

Parcel Identification	Property Owner Name	Property Owner Mailing Address	Property Address	Water Supply Wells on Property	Groundwater Monitoring Wells Currently Installed on Property	Notes
108-00-00-023-000	Gail A. & Barbara O. Whitmer	1226 Hwy 378 East, Edgefield, SC 29824	731 Hwy 378 East, Edgefield, SC 29824	Possible abandoned WSW	MW-1 through MW-6, MW 21, TW-1, TW-2	SITE
108-00-00-022-000	Gail A. & Barbara O. Whitmer	1226 Hwy 378 East, Edgefield, SC 29824	unknown	WSW-6 & Disconnected WSW	MW-7, MW-8, MW-20, MW-27, MW-28	Wooded Area around site; WSW-6 tag info: Date: 9/14/00, Depth: 400 ft.
108-00-00-034-000	Shirley Jean Smith	328 Florence Street NW, Aiken, SC 29801	741 Hwy 378 East, Edgefield, SC 29824	no WSWs identified	-	-
108-00-00-035-000	Betty O. Doolittle	1184 Hwy 378 East, Edgefield, SC 29824	unknown	no WSWs identified	-	-
108-00-00-036-000	21st Mortgage Corporation	620 Market Street #100, Knoxville TN 37902	745 Hwy 378 East, Edgefield, SC 29824	WSW-5 (disconnected)	-	WSW-5 tag info: Date: 6/16/07, Depth: 300 ft; well disconnected from power since 12/8/10 visit
108-00-00-038-000	Northside Volunteer Fire Department	719 Hwy 378 East, Edgefield, SC 29824	719 Hwy 378 East, Edgefield, SC 29824	WSW-7	-	-
109-00-00-022-000	Andrew & Kathalene Stevens	752 Hwy 378 East, Edgefield, SC 29824	752 Hwy 378 East, Edgefield, SC 29824	WSW-4	-	-
109-00-00-024-000	Shirley Jean Smith	328 Florence Street NW, Aiken, SC 29801	unknown	no WSWs identified	-	-
109-00-00-025-000	Johnnie Lee Gilliam	5890 Saratoga Drive Crestview, FL 32536	758 Hwy 378 East, Edgefield, SC 29824	Disconnected WSW	-	Abandoned trailer in the woods.
109-00-00-026-000	Hattie and Richard Dormeyer Coates	736 Hwy 378 East, Edgefield, SC 29824	736 Hwy 378 East, Edgefield, SC 29824	WSW-2 & Abandoned WSW	MW-18	-
109-00-00-028-000	Leroy Diggs	Post Office Box 25664, Los Angeles, CA 90025	744 Hwy 378 East, Edgefield, SC 29824	WSW-3 (Disconnected)	-	Not occupied
109-00-01-001-000	Hattie Scurry, etal	730 Hwy 378 East, Edgefield, SC 29824	730 Hwy 378 East, Edgefield, SC 29824	WSW-1 & Disconnected WSW	MW-11 through MW-15, MW-17, MW-22, MW-23, TW-5, TW-7	WSW-1 tag info: Date: 12/91, Depth: 280 ft
109-00-01-002-000	Henry Allen Harling	136 Casbel Ct, Hopkins, SC 29061	unknown	Abandoned WSW	MW-19 and TW-8	Wooded lot behind Scurry residence; resident indicated abandoned WSW is on the corner of the trailer.
109-00-01-003-000	Clifford T. Owdom	Post Office Box 606, Saluda, SC 29138	732 Hwy 378 East, Edgefield, SC 29824	Disconnected WSW	MW-16, MW-25, TW-6	-
109-00-01-004-000	JG and JP Owdom	1226 Hwy 378 East, Edgefield, SC 29824	unknown	no WSWs identified	MW-26 and TW-9	-
109-00-01-006-000	Ulyssess Padgett	62 Faulkner Mountain Rd, Edgefield, SC 29824	62 Faulkner Mountain Rd, Edgefield, SC 29824	no WSWs identified	-	-
109-00-01-007-000	Ida Bryant	54 Faulkner Mountain Rd, Edgefield, SC 29824	54 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-14	-	-
109-00-01-009-000	Derrick Simpkins	64 Faulkner Mountain Rd, Edgefield, SC 29824	64 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-12 and WSW-13	-	WSW-12 disconnected from power during April 2011 visit
109-00-01-010-000	Luther Mitchell Life Estate	66 Faulkner Mountain Rd, Edgefield, SC 29824	66 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-11	-	-
109-00-01-011-000	Bennie Culbreath	68 Faulkner Mountain Rd, Edgefield, SC 29824	68 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-10	MW-10, MW-24, TW-4, abandoned TW-10	-
109-00-01-012-000	Sidney L. Gordon	724 Hwy 378 East, Edgefield, SC 29824	724 Hwy 378 East, Edgefield, SC 29824	WSW-8 & Disconnected WSW	MW-9 and TW-3	-
109-00-01-013-000	Johnnie James & Sophie J. Bowman Life Estate	71 Faulkner Mountain Rd, Edgefield, SC 29824	71 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-9	-	Resident stated WSW-9 was installed to 58 ft
109-00-01-014-000	Johnnie James, Jr. and Joan P. Bowman	57 Faulkner Mountain Rd, Edgefield, SC 29824	57 Faulkner Mountain Rd, Edgefield, SC 29824	WSW-15	-	Resident stated WSW-15 was installed to 360 ft

TABLE 4
SUMMARY OF GROUNDWATER ELEVATION DATA[1]
378 TRUCK STOP

Well ID	Date Measured	Top of Casing Elevation (ft)	Depth to Free Product (ft)	Depth to Ground-water (ft)	Free Product Thickness (ft)	Ground-water Elevation[2] (ft)	Well Depth (ft)	Screened Interval (ft)
MW-1	5/25/10 [3]	101.85	15.33	15.37	0.04	86.51	unknown	unknown
	10/18/10 [4]	101.98	26.50	26.54	0.04	75.47		
	4/19/11		--	21.70	--	80.28	44.81	
MW-2	5/25/10	101.02	--	16.82	--	84.20	41.72	unknown
	10/18/10	100.99	--	27.10	--	73.89		
	4/19/11		--	23.34	--	77.65		
MW-3	5/25/10	101.46	--	17.28	--	84.18	40	10-40
	10/18/10	101.54	--	27.58	--	73.96		
	4/19/11		--	23.78	--	77.76		
MW-4	5/25/10	100.50	--	16.35	--	84.15	40	10-40
	10/18/10	100.48	--	26.20	--	74.28		
	4/19/11		--	22.12	--	78.36		
MW-5	5/25/10	104.21	--	27.30	--	76.91	40	20-40
	10/18/10	104.18	--	30.24	--	73.94		
	4/19/11		--	27.63	--	76.55		
MW-6	10/18/10	102.25	--	28.01	--	74.24	35.05	20.05-35.05
	4/19/11		--	23.06	--	79.19		
MW-7	10/18/10	99.72	--	25.10	--	74.62	34.92	19.92-34.92
	4/19/11		--	21.04	--	78.68		
MW-8	10/18/10	99.92	--	25.45	--	74.47	35.08	20.08-35.08
	4/19/11		--	22.51	--	77.41		
MW-9	10/18/10	94.83	--	30.31	--	64.52	35.17	20.17-35.17
	4/19/11		--	24.13	--	70.70		
MW-10	10/18/10	99.12	--	29.73	--	69.39	40.16	25.16-40.16
	4/19/11		--	26.18	--	72.94		
MW-11	10/18/10	102.61	--	28.75	--	73.86	35.23	20.23-35.23
	4/19/11		--	25.59	--	77.02		
MW-12	10/18/10	103.46	--	29.63	--	73.83	34.99	19.99-34.99
	4/19/11		--	26.11	--	77.35		
MW-13	10/18/10	101.48	--	27.63	--	73.85	40.19	25.19-40.19
	4/19/11		--	23.50	--	77.98		
MW-14	10/18/10	103.48	--	29.99	--	73.49	39.74	24.74-39.74
	4/19/11		--	28.52	--	74.96		
MW-15	10/18/10	103.16	--	30.32	--	72.84	40.13	25.13-40.13
	4/19/11		--	25.18	--	77.98		
MW-16	10/18/10	101.32	--	30.79	--	70.53	40.11	25.11-40.11
	4/19/11		--	24.59	--	76.73		
MW-17	10/18/10	98.40	--	23.74	--	74.66	35.02	20.02-35.02
	4/19/11		--	18.20	--	80.20		

TABLE 4
SUMMARY OF GROUNDWATER ELEVATION DATA[1]
378 TRUCK STOP

Well ID	Date Measured	Top of Casing Elevation (ft)	Depth to Free Product (ft)	Depth to Ground-water (ft)	Free Product Thickness (ft)	Ground-water Elevation[2] (ft)	Well Depth (ft)	Screened Interval (ft)
MW-18	10/18/10	95.05	--	22.02	--	73.03	35.67	20.67-35.67
	4/19/11		--	15.71	--	79.34		
MW-19	10/18/10	101.07	--	27.62	--	73.45	38.57	23.57-38.57
	4/19/11		--	21.63	--	79.44		
MW-20[5]	12/6/10	110.52	--	41.77	--	68.75	45.05	30.05-45.05
	4/19/11		--	37.72	--	72.80		
MW-21	12/6/10	101.70	--	32.66	--	69.04	40.16	25.16-40.16
	4/19/11		--	24.19	--	77.51		
MW-22	12/6/10	105.13	--	34.95	--	70.18	40.09	25.09-40.09
	4/19/11		--	28.56	--	76.57		
MW-23	12/6/10	100.01	--	29.26	--	70.75	37.24	22.24-37.24
	4/19/11		--	19.69	--	80.32		
MW-24	12/6/10	99.08	--	32.25	--	66.83	40.13	25.13-40.13
	4/19/11		--	25.58	--	73.50		
MW-25	12/6/10	101.54	--	32.00	--	69.54	39.98	24.98-39.98
	4/19/11		--	23.44	--	78.10		
MW-26	12/6/10	97.25	--	29.08	--	68.17	38.74	23.74-38.74
	4/19/11		--	21.07	--	76.18		
MW-27	12/6/10	97.20	--	28.48	--	68.72	35.10	20.10-35.10
	4/19/11		--	24.42	--	72.78		
MW-28	12/6/10	101.29	--	33.39	--	67.90	40.03	25.03-40.03
	4/19/11		--	20.91	--	80.38		
TW-1	10/18/10	101.83	--	28.44	--	73.39	63.27	58.27-63.27
	4/19/11		--	25.53	--	76.30		
TW-2	10/18/10	101.97	--	29.57	--	72.40	80.23	75.23-80.23
	4/19/11		--	23.83	--	78.14		
TW-3	10/18/10	95.33	--	25.39	--	69.94	80.62	75.62-80.62
	4/19/11		--	23.83	--	71.50		
TW-4	10/18/10	99.23	--	43.13	--	56.10	68.56	63.56-68.56
	4/19/11		--	27.11	--	72.12		
TW-5	10/18/10	103.62	--	29.69	--	73.93	58.38	53.38-58.38
	4/19/11		--	25.96	--	77.66		
TW-6	10/18/10	101.29	--	31.22	--	70.07	58.55	53.55-58.55
	4/19/11		--	25.25	--	76.04		
TW-7	10/18/10	98.13	--	50.90	--	47.23	58.94	53.94-58.94
	4/19/11		--	16.83	--	81.30		

TABLE 4
SUMMARY OF GROUNDWATER ELEVATION DATA[1]
378 TRUCK STOP

Well ID	Date Measured	Top of Casing Elevation (ft)	Depth to Free Product (ft)	Depth to Ground-water (ft)	Free Product Thickness (ft)	Ground-water Elevation[2] (ft)	Well Depth (ft)	Screened Interval (ft)
TW-8	10/18/10	101.03	--	28.18	--	72.85	58.53	53.53-58.53
	4/19/11		--	22.19	--	78.84		
TW-9	12/6/10	96.92	--	28.96	--	67.96	80.12	75.12-80.12
	4/19/11		--	21.14	--	75.78		

Notes:
1. Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level; data reported in feet.
2. Groundwater elevations adjusted for the presence of free product, where applicable, with an assumed density of 0.75 g/cm^3.
3. May 2010 suvey data collected by Environmental Compliance Services, Inc. during Tier I assessment activities.
4. Subsequent October and December 2010 survey data provided by Pittman Professional Land Surveying.
5. MW-20 installed with a 3 ft stickup riser.

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA[1]
CHEMICALS OF CONCERN
378 TRUCK STOP

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Naph-thalene (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Total Lead (ug/L)
MW-1	5/25/10	**Free Product**								
	10/18/10	**Free Product**								
	4/19/11	**456**	210	**1,010**	4,700	<50.0	**277**	<50.0	**1.2**	NR
MW-2	5/25/10	**109** [2]	<5.0[3]	114	312	<5.0	**50.6**	NR[4]	0.035	NR
	10/19/10	1.7 J[5]	<5.0	<5.0	2.9 J	<5.0	<5.0	**24.8**	<0.020	NR
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**28.5**	<0.020	NR
MW-3	5/25/10	**239**	139	**815**	4,800	<5.0	**285**	**126**	**0.099**	**28.9**
	10/18/10	**6,820**	343	**981**	6,260	3.4 J	**449**	**561**	**0.31**	NR
	4/19/11	**7,300**	253	**921**	5,060	<250	**342**	**542**	**0.30**	NR
MW-4	5/25/10	2.9 J	<5.0	1.4 J	<15.0	<5.0	12.7	3.5 J	<0.020	**62.8**
	10/18/10	**5.7**	<5.0	<5.0	<15.0	3.0 J	3.7 J	4.8 J	<0.020	NR
	4/20/11	**16.4**	<5.0	6.0	14.0	<5.0	9.3	<5.0	<0.020	NR
MW-5	5/25/10	3.6 J	1.8 J	4.0 J	22.3	<5.0	<5.0	4.8 J	<0.020	11.8
	10/18/10	**102**	<5.0	4.1 J	135.9	3.2 J	**43.5**	**6.6**	<0.020	NR
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
MW-6	10/19/10	<5.0	<5.0	<5.0	<15.0	3.0 J	<5.0	3.5 J	<0.020	<5.0
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
MW-7	10/19/10	**12.9**	4.6 J	3.2 J	34.2 J	<5.0	<5.0	4.6 J	**0.40**	<5.0
	4/20/11	**794**	108	410	2,536	<5.0	**116**	**66.6**	**6.9**	NR
MW-8	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/20/11	<5.0	<5.0	<5.0	4.0 J	<5.0	2.2 J	<5.0	<0.020	NR
MW-9	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/19/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
MW-10	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	<5.0
	4/19/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
MW-11	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	1.3 J	<0.020	<5.0
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
MW-12	10/19/10	**387**	**1,210**	120	2,650	<5.0	**187**	**24.7**	**4.8**	<5.0
	4/20/11	**1,360**	987	462	1,659	<50.0	**91.3**	**75.7**	**6.0**	NR
MW-13	10/19/10	**333**	109	58.3	282	<10.0	10.1	**61.9**	0.022	<5.0
	4/20/11	**376**	46.8	31.2	394	<12.5	11.7 J	**57.0**	**0.074**	NR
MW-14	10/19/10	<5.0	<5.0	2.5 J	9.5 J	<5.0	<5.0	<5.0	<0.020	<5.0
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
MW-15	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	3.0 J	<0.020	<5.0
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
MW-16	10/19/10	**246**	26.1	14.3	229.2	<5.0	<5.0	2.5 J	<0.020	<5.0
	4/19/11	**158**	8.5	2.5 J	96.2	<5.0	5.8	<5.0	<0.020	NR
MW-17	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	4.3 J
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA[1]
CHEMICALS OF CONCERN
378 TRUCK STOP

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Naph-thalene (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Total Lead (ug/L)
MW-18	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	<5.0
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
MW-19	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
MW-20	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
MW-21	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/21/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
MW-22	12/6/10	**11,900**	**29,500**	**1,800**	**11,400**	<100	**522**	**463**	**122**	**15.3**
	4/20/11	**8,690**	**20,600**	**1,870**	**11,070**	<1,250	<1,250	<1,250	**119**	NR
MW-23	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
MW-24	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**6.7**	<0.020	<5.0
	4/19/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	4.1 J	<0.020	NR
MW-25	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
MW-26	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/19/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
MW-27	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**6.4**	<0.020	<5.0
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	2.6 J	<0.020	NR
MW-28	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/21/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
TW-1	10/18/10	<5.0	<5.0	<5.0	<15.0	5.7	<5.0	**64.2**	<0.020	<5.0
	4/19/11	<5.0	<5.0	<5.0	<15.0	5.0	<5.0	**48.9**	<0.020	NR
TW-2	10/19/10	<5.0	3.4 J	<5.0	2.8 J	<5.0	<5.0	4.2 J	<0.020	<5.0
	4/19/11	<5.0	1.6 J	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
TW-3	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/19/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
TW-4	10/19/10	<5.0	<5.0	<5.0	<15.0	2.9 J	<5.0	<5.0	<0.019	<5.0
	4/19/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
TW-5	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	1.7 J	<0.020	<5.0
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
TW-6	10/19/10	1.5 J	<5.0	<5.0	<15.0	<5.0	<5.0	**5.1**	<0.020	<5.0
	4/19/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	3.6 J	<0.020	NR
TW-7	10/19/10	<5.0	1.9 J	<5.0	5.6 J	<5.0	<5.0	<5.0	<0.020	<5.0
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
TW-8	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	<5.0
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
TW-9	12/6/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/19/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA[1]
CHEMICALS OF CONCERN
378 TRUCK STOP

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Naph-thalene (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Total Lead (ug/L)
TW-10[6]	12/2/10	<5.0	<5.0	<5.0	<15.0	<5.0	2.9 J	<5.0	<0.020	NR
WSW-1	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	2.1 J	<0.020	NR
WSW-1 pre GAC[7]	11/18/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	2.5 J	<0.019	NR
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-1 post GAC	11/18/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-2	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	4/20/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-3	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	5/3/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-4	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	4/21/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-5	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	4/21/11	Well pump not operational, could not collect sample								
WSW-6	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	4/21/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-7	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	4/21/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-8	10/19/10	<5.0	<5.0	<5.0	<15.0	3.6 J	<5.0	**9.2**	<0.020	NR
WSW-8 pre GAC[8]	11/12/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	**7.5**	<0.020	NR
	4/21/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	2.9 J	<0.020	NR
WSW-8 post GAC	11/12/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	4/21/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-9	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	4/21/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-10	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	4/21/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
WSW-11	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	4/21/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-12	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	4/21/11	Well pump not operational, could not collect sample								
WSW-13	10/19/10	<5.0	<5.0	<5.0	<15.0	3.2 J	<5.0	<5.0	<0.020	NR
	4/21/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
WSW-14	10/19/10	<5.0	<5.0	<5.0	<15.0	4.0 J	<5.0	<5.0	<0.020	NR
	4/21/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA[1]
CHEMICALS OF CONCERN
378 TRUCK STOP

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Naph-thalene (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	Total Lead (ug/L)
WSW-15	10/19/10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.019	NR
	4/21/11	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<0.020	NR
	RBSL[9]	5	1,000	700	10,000	40	25	5	0.05	15

Notes:

1. Analyses for BTEX compounds, MTBE, naphthalene, and 1,2-DCA by EPA Method 8260B; analyses for EDB by EPA Method 8011; analyses for total lead by EPA Method 6010.
2. Concentrations in bold face type exceeded the May 2001 Risk-Based Screening Level.
3. Less than the reporting limit specified in the laboratory report.
4. Analyses not requested.
5. Estimated value below the laboratory reporting limit.
6. TW-10 did not produce enough water and was subsequently abandoned following sample collection.
7. WSW-1 GAC installed on 11/18/10.
8. WSW-8 GAC installed on 11/12/10.
9. May 2001 Risk-Based Screening Level.

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA[1]
EIGHT OXYGENATES
378 TRUCK STOP

Well ID	Date Sampled	Ethanol (ug/L)	Ethyl tert-Butyl Ether (ETBE) (ug/L)	Di-isopropyl Ether (DIPE) (ug/L)	3,3- Dimethyl-1-Butanol (ug/L)	Tertiary Butyl Alcohol (TBA) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	tert-Amyl Alcohol (TAA) (ug/L)	tert-Butyl Formate (TBF) (ug/L)
MW-1	10/18/10	**Free Product**							
	4/19/11	<2,000	<100	<50.0	<1,000	<1,000	<100	<1,000	<500
MW-2	10/19/10	<200[2]	<10.0	<5.0	<100	254	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	336	<10.0	96.2 J	<50.0
MW-3	10/18/10	<200	<10.0	55.7	<100	773	<10.0	**12,900** [3]	<50.0
	4/19/11	<10,000	<500	<250	<5,000	<5,000	<500	**13,800**	<2,500
MW-4	10/18/10	<200	<10.0	<5.0	<100	<100	<10.0	199	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-5	10/18/10	<200	<10.0	<5.0	<100	<100	<10.0	168	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-6	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	131	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-7	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	**2,650**	<50.0
MW-8	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	**244**	<50.0
MW-9	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/19/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-10	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/19/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-11	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-12	10/19/10	<200	<10.0	<5.0	<100	83.0 J[4]	<10.0	**267**	<50.0
	4/20/11	<2,000	<100	<50.0	<1,000	<1,000	<100	<1,000	<500
MW-13	10/19/10	<400	<20.0	<10.0	<200	<200	<20.0	**1,260**	<100
	4/20/11	<500	<25.0	<12.5	<250	<250	<25.0	**1,210**	<125
MW-14	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-15	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-16	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	**360**	<50.0
	4/19/11	<200	<10.0	<5.0	<100	<100	<10.0	**321**	<50.0
MW-17	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-18	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-19	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-20	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA[1]
EIGHT OXYGENATES
378 TRUCK STOP

Well ID	Date Sampled	Ethanol (ug/L)	Ethyl tert-Butyl Ether (ETBE) (ug/L)	Di-isopropyl Ether (DIPE) (ug/L)	3,3- Dimethyl-1-Butanol (ug/L)	Tertiary Butyl Alcohol (TBA) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	tert-Amyl Alcohol (TAA) (ug/L)	tert-Butyl Formate (TBF) (ug/L)
MW-21	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-22	12/6/10	<4,000	<200	<100	<2,000	<2,000	<200	**9,730**	<1,000
	4/20/11	<50,000	<2,500	<1,250	<25,000	<25,000	<2,500	<25,000	<12,500
MW-23	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-24	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/19/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-25	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-26	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/19/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-27	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
MW-28	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
TW-1	10/18/10	<200	<10.0	<5.0	<100	<100	<10.0	**1,180**	<50.0
	4/19/11	<200	<10.0	1.8 J	<100	<100	<10.0	**1,000**	<50.0
TW-2	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	95.4 J	<50.0
	4/19/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
TW-3	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/19/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
TW-4	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/19/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
TW-5	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
TW-6	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/19/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
TW-7	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
TW-8	10/19/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
TW-9	12/6/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/19/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
TW-10[5]	12/2/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-1 pre GAC[6]	11/18/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-1 post GAC	11/18/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-2	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/20/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA[1]
EIGHT OXYGENATES
378 TRUCK STOP

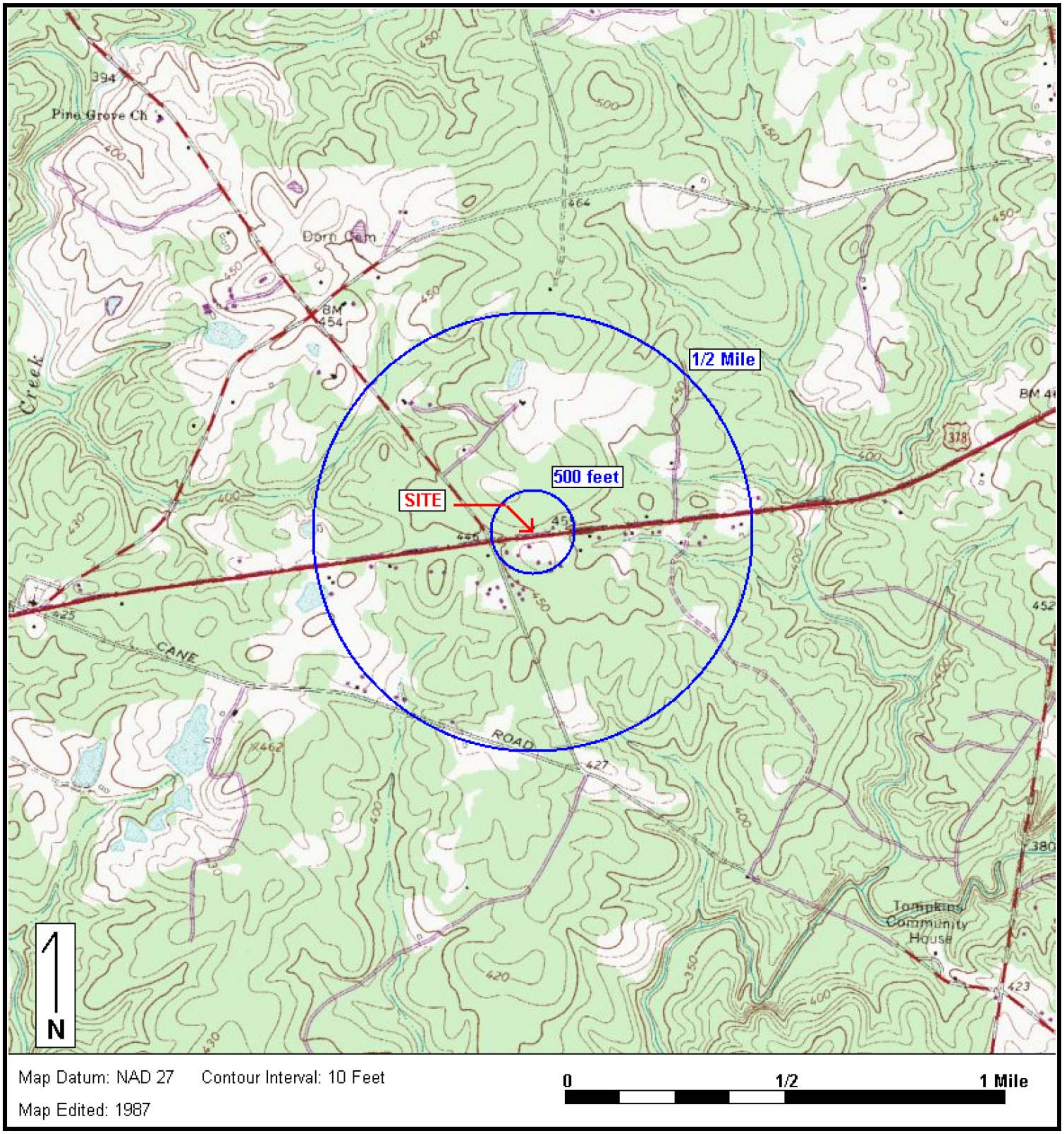
Well ID	Date Sampled	Ethanol (ug/L)	Ethyl tert-Butyl Ether (ETBE) (ug/L)	Di-isopropyl Ether (DIPE) (ug/L)	3,3- Dimethyl-1-Butanol (ug/L)	Tertiary Butyl Alcohol (TBA) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	tert-Amyl Alcohol (TAA) (ug/L)	tert-Butyl Formate (TBF) (ug/L)
WSW-3	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	5/3/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-4	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-5	12/8/10	Not sampled for oxygenates. Well pump electric disconnected.							
	4/21/11	Well pump not operational, could not collect sample							
WSW-6	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-7	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-8 pre GAC[7]	11/12/10	<200	<10.0	<5.0	<100	<100	<10.0	**262**	<50.0
	4/21/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-8 post GAC	11/12/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-9	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-10	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-11	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-12	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/11	Well pump not operational, could not collect sample							
WSW-13	12/8/10	Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10.							
	4/21/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-14	12/8/10	Not sampled for oxygenates. Sampled by SCDHEC on 11/4/10.							
	4/21/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
WSW-15	12/8/10	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	4/21/11	<200	<10.0	<5.0	<100	<100	<10.0	<100	<50.0
	Action Levels[8]	10,000	47	150	NA	1,400	128	240	NA

Notes:
1. Analyses for eight oxygenates by EPA Method 8260B.
2. Less than the reporting limit specified in the laboratory report.
3. Concentrations in bold face exceed the 2008 SCDHEC Action Level.
4. Estimated value below the laboratory reporting limit.
5. TW-10 did not produce enough water and was subsequently abandoned following sample collection.
6. WSW-1 GAC installed on 11/18/10.
7. WSW-8 GAC installed on 11/12/10.
8. Action Levels based on SCDHEC Revision 1 dated 8/22/08.

Environmental Compliance Services, Inc.
13504 South Point Boulevard
Charlotte, NC 28273
Phone 704.583.2711
www.ecsconsult.com

378 Truck Stop
731 Highway 378
Edgefield, SC 29824

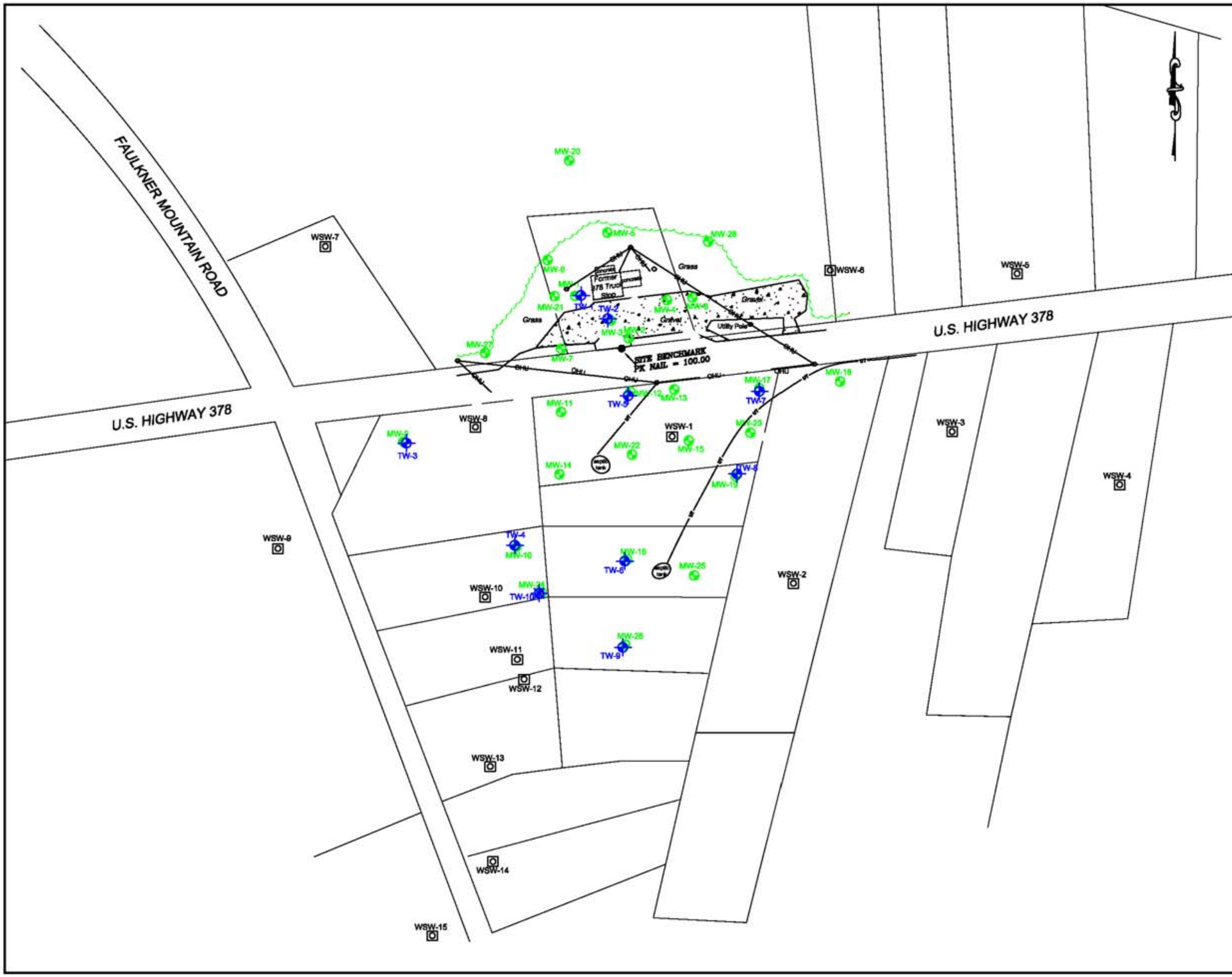
Figure 1: SITE LOCUS



Base Map: U.S. Geological Survey; Quadrangle Location: Owdoms, SC

Lat/Lon: 33º 56' 13" NORTH, 81º 57' 3" WEST - UTM Coordinates: 17 412120 EAST / 3755577 NORTH

Generated By: Rich Walas



Legend

- Approximate Property Line
- OHU — Overhead Electric Line
- UT — Underground Telephone Line
- Utility Pole
- Shallow (Water Table) Monitoring Well
- Telescoping Monitoring Well
- Abandoned Telescoping Monitoring Well
- Water Supply Well
- MW–1 Well I.D.

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

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WHERE BUSINESS AND THE ENVIRONMENT CONVERGE

13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL. (704)583-2711 FAX (704)583-2744

PROJECT: **378 Truck Stop**
731 Highway 378
Edgefield, SC

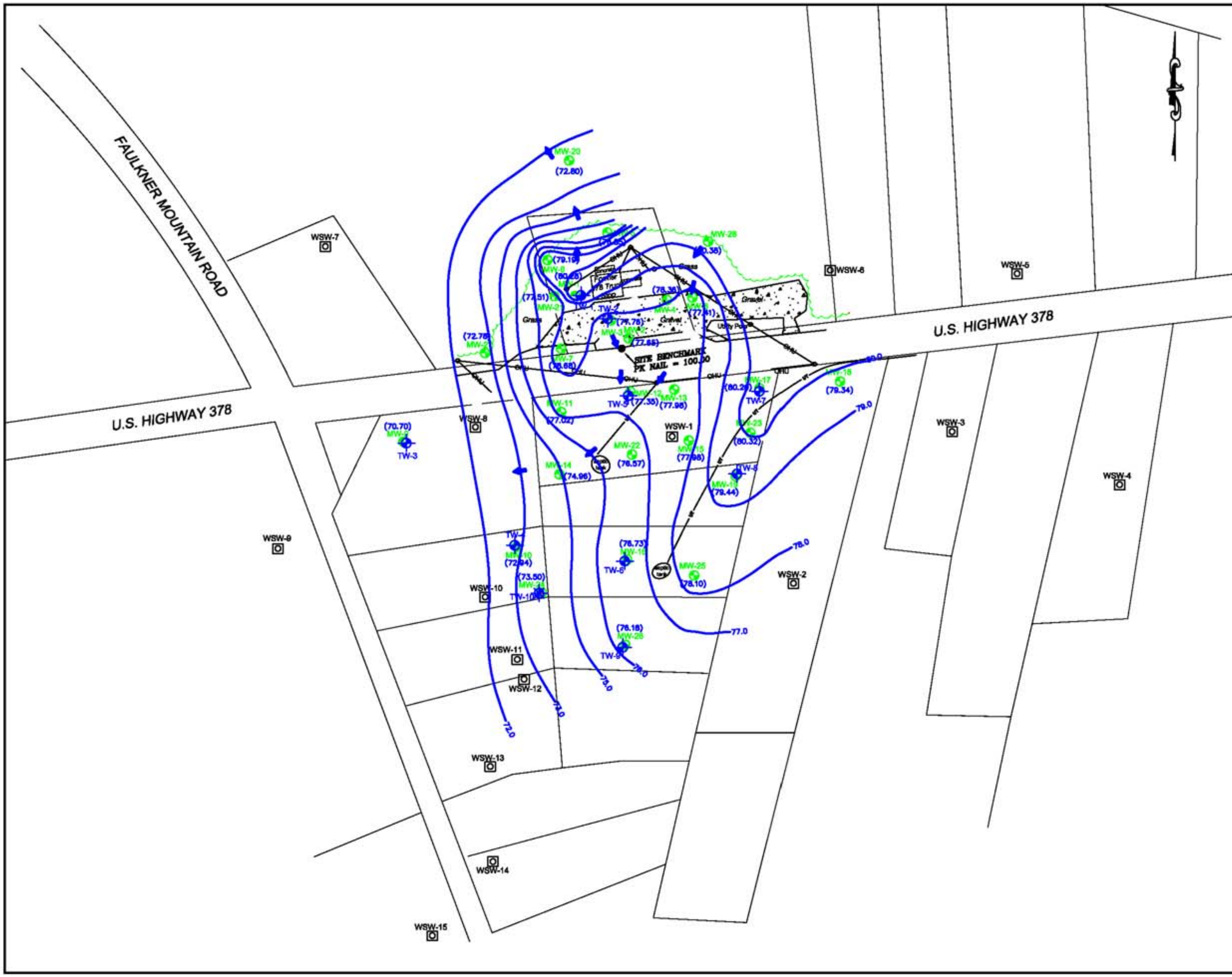
TITLE: **Site Plan**

CLIENT: **Wilkerson Fuel Company, Inc.**

GRAPHIC SCALE: 150 75 0 75 150

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1"=150'	5/2/11	14-214210	2



Legend

- Approximate Property Line
- OHU — Overhead Electric Line
- UT — Underground Telephone Line
- Utility Pole
- Shallow (Water Table) Monitoring Well
- Telescoping Monitoring Well
- Abandoned Telescoping Monitoring Well
- Water Supply Well
- MW—1 Well I.D.
- (73.71) Groundwater Elevation
- 90.00 Water Table Contour (Dashed where inferred)
- Flow Direction Indicator

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Groundwater elevations are relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level.

Groundwater elevations are based on measurements made on April 19, 2011.

Water table contours and flow directions assume homogenous, isotropic aquifer conditions and horizontal flow.

Fluctuations in the level of the water table may occur due to factors not accounted for at the time of measurement.

Water table contours are interpolated between data points and inferred in other areas.

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WHERE BUSINESS AND THE ENVIRONMENT CONVERGE
13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL. (704)583-2711 FAX (704)583-2744

PROJECT: **378 Truck Stop**
731 Highway 378
Edgefield, SC

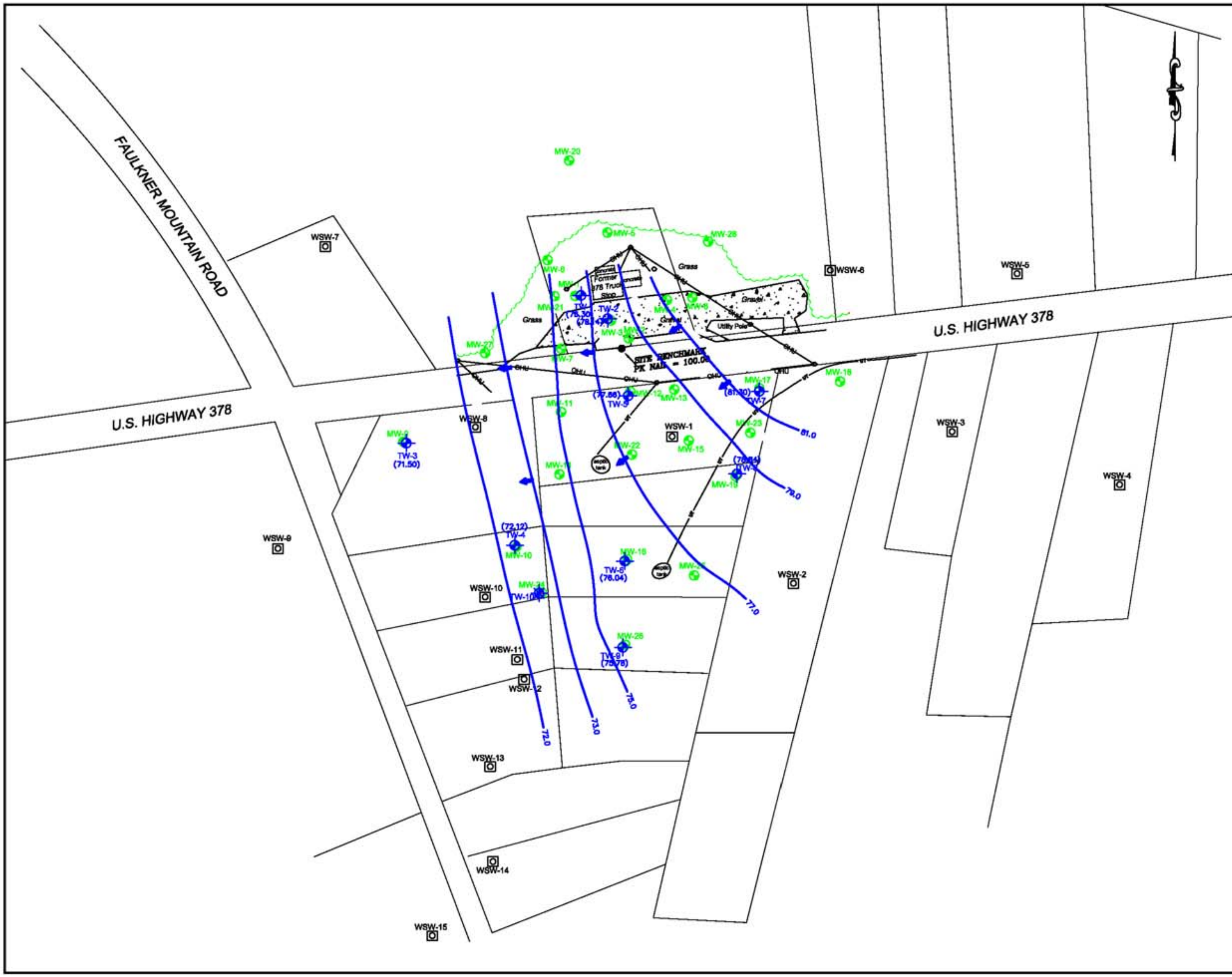
TITLE: **Groundwater Elevation Map – Shallow**

CLIENT: **Wilkerson Fuel Company, Inc.**

GRAPHIC SCALE: 150 75 0 75 150

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1"=150'	5/2/11	14-214210	3



Legend

- Approximate Property Line
- OHU — Overhead Electric Line
- UT — Underground Telephone Line
- Utility Pole
- Shallow (Water Table) Monitoring Well
- Telescoping Monitoring Well
- Abandoned Telescoping Monitoring Well
- Water Supply Well
- MW-1 Well I.D.
- (73.71) Groundwater Elevation
- 90.00 Water Table Contour (Dashed where Inferred)
- Flow Direction Indicator

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

Groundwater elevations are relative to a temporary benchmark with an assumed datum of 100.00 feet above mean sea level.

Groundwater elevations are based on measurements made on April 19, 2011.

Water table contours and flow directions assume homogenous, isotropic aquifer conditions and horizontal flow.

Fluctuations in the level of the water table may occur due to factors not accounted for at the time of measurement.

Water table contours are interpolated between data points and inferred in other areas.

ecs

WHERE BUSINESS AND THE ENVIRONMENT CONVERGE

13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL. (704)583-2711 FAX (704)583-2744

PROJECT: **378 Truck Stop**
731 Highway 378
Edgefield, SC

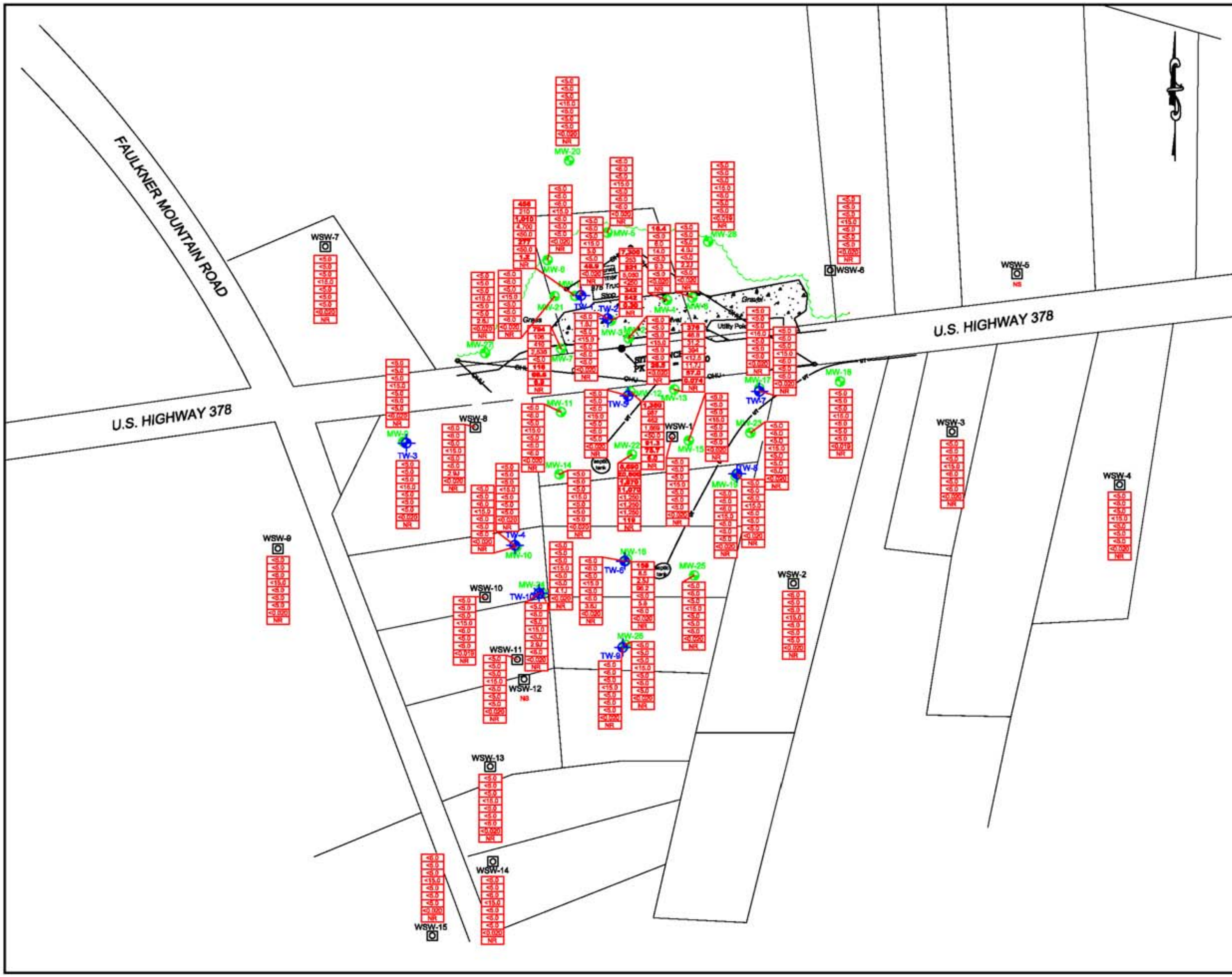
TITLE: **Groundwater Elevation Map - Deep**

CLIENT: **Wilkerson Fuel Company, Inc.**

GRAPHIC SCALE: 150 75 0 75 150

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1"=150'	5/2/11	14-214210	4



Legend

Approximate Property Line

Overhead Electric Line

Underground Telephone Line

Utility Pole

Shallow (Water Table) Monitoring Well

Telescoping Monitoring Well

Abandoned Telescoping Monitoring Well

Water Supply Well

MW-1 Well I.D.

5	Benzene
1,000	Toluene
700	Ethylbenzene
10,000	Xylenes
40	MTBE
25	Naphthalene
5	1,2-DCA
0.05	EDB
15	Lead

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

All concentrations are measured in micrograms per liter (ug/L).

Groundwater samples collected in April and May 2011.

Above concentrations represent May 2001 Risk-Based Screening Levels; Concentrations in bold face type exceeded the RBSL.

J - Estimated value between the method detection limit and the laboratory reporting limit.

<1.0 - Less than the reporting limit specified in the laboratory report.

NR - Not Requested.

NS - Not Sampled.

WSW-1 and WSW-8 data represent pre-treatment concentrations.

ecs

WHERE BUSINESS AND THE ENVIRONMENT CONVERGE

13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL. (704)583-2711 FAX (704)583-2744

PROJECT: **378 Truck Stop**
731 Highway 378
Edgefield, SC

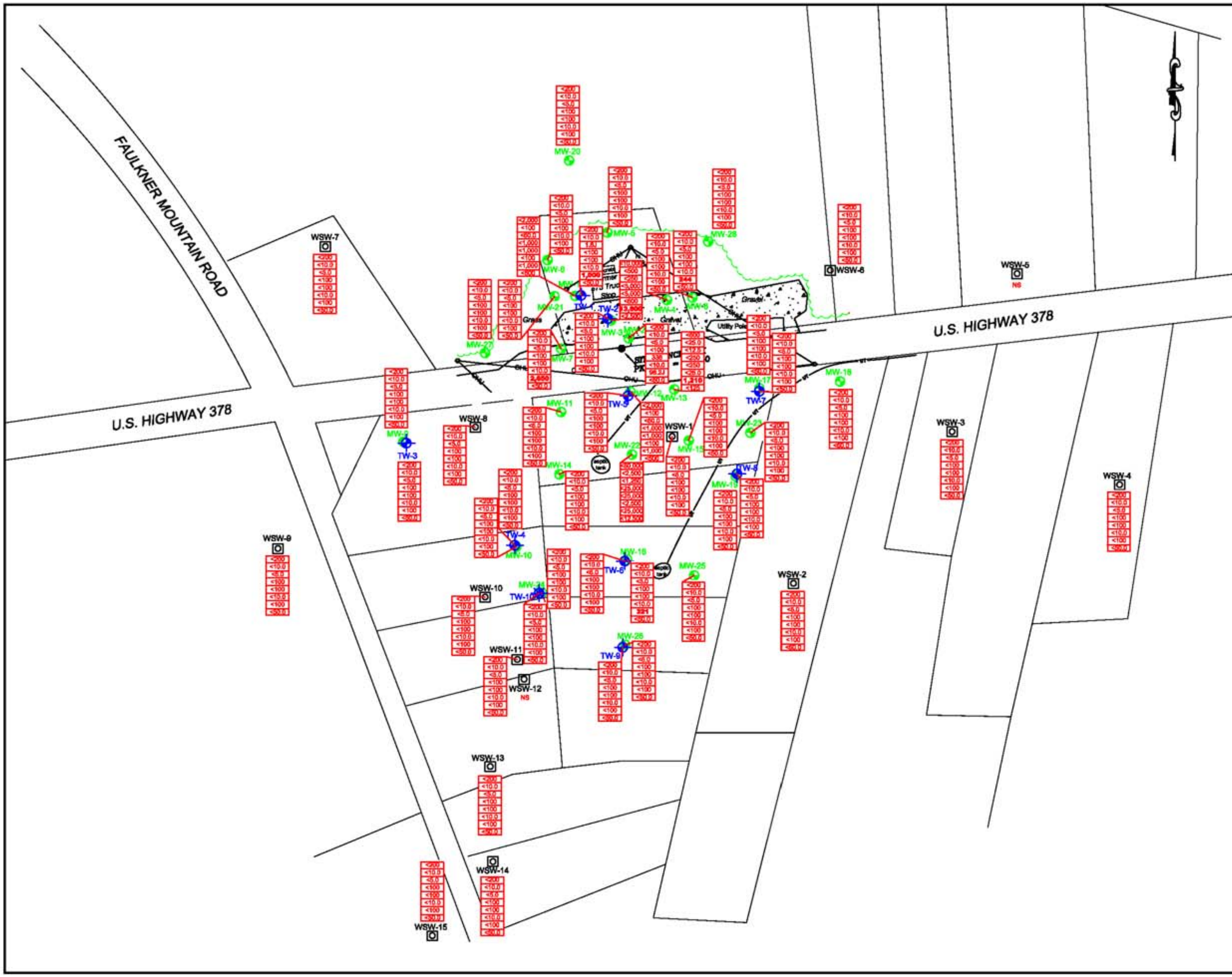
TITLE: **Groundwater Quality Map -CoC**

CLIENT: **Wilkerson Fuel Company, Inc.**

GRAPHIC SCALE: 150 75 0 75 150

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1"=150'	5/2/11	14-214210	5



Legend

	Approximate Property Line
OHU	Overhead Electric Line
UT	Underground Telephone Line
	Utility Pole
	Shallow (Water Table) Monitoring Well
	Telescoping Monitoring Well
	Abandoned Telescoping Monitoring Well
	Water Supply Well
MW-1	Well I.D.

10,000	Ethanol
47	Ethyl tert-Butyl Ether (ETBE)
150	Di-isopropyl Ether (DIPE)
NA	3,3-Dimethyl-1-Butanol
1,400	Tertiary Butyl Alcohol (TBA)
128	Tert-Amyl Methyl Ether (TAME)
240	tert-Amyl Alcohol (TAA)
NA	tert-Butyl Formate (TBF)

General Notes:

All locations, dimensions, and property lines depicted on this plan are approximate. This plan should not be used for construction or land conveyance purposes.

All concentrations are measured in micrograms per liter (ug/L).

Groundwater samples collected in April and May 2011.

Above concentrations represent 2008 SCDHEC Action Levels; Concentrations in bold face type exceeded the Action Level.

J – Estimated Value between the method detection limit and the reporting limit.

<1.0 – Less than the reporting limit specified in the laboratory report.

NS – Not Sampled

WSW-1 and WSW-8 data represent pre-treatment concentrations.

ecs

WHERE BUSINESS AND THE ENVIRONMENT CONVERGE
13504 SOUTH POINT BLVD, UNIT F
CHARLOTTE, NORTH CAROLINA 28273
TEL. (704)583-2711 FAX (704)583-2744

PROJECT:
378 Truck Stop
731 Highway 378
Edgefield, SC

TITLE:
Groundwater Quality Map – Oxygenates

CLIENT:
Wilkerson Fuel Company, Inc.

GRAPHIC SCALE: 150 75 0 75 150

COMPUTER CADFILE: CADFILE

DRAWN BY:	DESIGNED BY:	CHECKED BY:	APPROVED BY:
CD	CD	CD	CD
SCALE:	DATE:	JOB NO.:	FIGURE NO.:
1"=150'	5/2/11	14-214210	6

APPENDIX A

AFVR Event Field Data Sheets, Emission Calculations & Disposal Manifest – March 16, 2011

APPENDIX A
AFVR EVENT FIELD DATA SHEETS

AFVR Measurements Prior to and After Event

Project Name:	378 Truck Stop	UST Permit No:	07960
Project No:	14-214210	ECS Field Rep.:	B. McNeill
Date:	3/16/2011		

Measurements Prior to AFVR Event

Vac. Truck (VT) Co.:	A&D	
VT No.:	18	
VT Tank Capacity:	3,200	gallons
Inside Diameter of VT Outlet Stack:	6	inches
Is Tank Empty & Clean (Y/N)	Yes	

Measurements After AFVR Event

VT Tank Product volume	0	gallons
VT Tank Water volume	233	gallons
VT Tank Total volume	233	gallons

	Prior to AFVR		Immediately After AFVR		20 min. After AFVR		
Well ID	Depth to Product	Depth to Water	Depth to Product	Depth to Water	Depth to Product	Depth to Water	Depth of Stinger[1]
MW-1	25.53	25.55	NP	28.58	NP	28.58	26.05
MW-3	NP	25.86	NP	26.13	NP	26.10	--
MW-7	NP	23.44	NP	22.81	NP	22.89	--
MW-21	NP	24.30	NP	24.23	NP	24.23	--

NP denotes no measurable free product.

1. Initial depth of stinger. Stinger was adjusted throughout the event to maximize vapor recovery.

Project Name:	378 Truck Stop	ECS Project No:	14-214210
UST Permit No:	07960	Field Operative:	B. McNeill
Date:	3/16/2011	Subcontractor	A&D

Measurements During AFVR Event

	Stack Outlet				Vac Truck	Non-AFVR Wells					
						MW-3		MW-7		MW-21	
Time	Air Flow (ft/min)	Temperature (Fahrenheit)	R.H. (%)	TLV (ppm)	Vacuum (in. of Hg)	DTW (ft)	Vacuum (in of H_2O)	DTW (ft)	Vacuum (in of H_2O)	DTW (ft)	Vacuum (in of H_2O)
8:15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
8:30	3,722	155.8	3.4	0	20	NM	NM	NM	NM	NM	NM
8:45	3,837	169.0	3.0	0	21	NM	0.10	NM	0.00	NM	0.20
9:00	4,419	175.1	2.8	0	21	NM	NM	NM	NM	NM	NM
9:15	4,390	169.3	2.9	7	20	NM	0.10	NM	0.00	NM	0.20
9:30	3,801	175.1	2.1	8	20	NM	NM	NM	NM	NM	NM
9:45	4,092	175.8	2.1	9	20	NM	0.10	NM	0.00	NM	0.20
10:00	3,971	180.9	2.3	15	20	NM	NM	NM	NM	NM	NM
10:15	4,341	182.7	2.5	22	20	NM	0.10	NM	0.00	NM	0.20
10:45	4,165	185.6	2.5	20	20	NM	0.10	NM	0.00	NM	0.20
11:15	4,179	185.0	2.2	30	20	NM	0.10	NM	0.00	NM	0.20
11:45	4,058	188.2	2.1	28	20	NM	0.10	NM	0.00	NM	0.20
12:15	4,341	194.4	1.9	19	20	NM	0.10	NM	0.00	NM	0.20
12:45	4,107	186.3	2.0	11	20	NM	0.10	NM	0.00	NM	0.20
13:15	4,027	188.1	1.8	4	20	NM	0.10	NM	0.00	NM	0.20
13:45	4,140	184.6	2.3	9	20	NM	0.10	NM	0.00	NM	0.20
14:15	3,908	188.4	1.7	16	20	NM	0.10	NM	0.00	NM	0.20
14:45	4,213	190.4	1.7	11	19	NM	0.10	NM	0.00	NM	0.20
15:15	4,099	187.7	1.4	10	19	NM	0.10	NM	0.00	NM	0.20
15:45	3,903	192.5	1.5	8	19	NM	0.10	NM	0.00	NM	0.20
16:15	4,206	194.4	1.6	7	19	NM	0.10	NM	0.00	NM	0.20

NM denotes not measured

APPENDIX A
EMISSIONS CALCULATIONS

AGGRESSIVE FLUID/VAPOR RECOVERY EVENT

SITE NAME: 378 Truck Stop
UST PERMIT NUMBER: 07960
AVERAGE DEPTH TO GROUNDWATER: 24.79 feet
DESCRIBE SOIL IN THE SATURATED ZONE: PWR/Rock
INDICATE AVERAGE HYDRAULIC CONDUCTIVITY (if known): unknown
IDENTIFY THE WELL AND THE I.D. OF EACH WELL USED FOR AFVR: MW-1
PROVIDE BLOWER SPECIFICATIONS OF THE VACUUM TRUCK (cfm @ in Hg): 492 cfm @ 24 in Hg

DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) AIR FLOW CALCULATIONS (Qstd)

Date	Time	Vacuum (in. of Hg)	Velocity (ft/min)	Pipe ID (in)	Temp (°F)	Relative Humidity	B_{wsw} (Wt/Wt)	B_{ws} (vol/vol)	Q_{std} (flow)
Start	8:15	Connection to MW-1, stinger initially set at 26.05 feet below top of casing.							
03/16/11	8:30	20	3,722	6	155.8	3.4	0.006344	0.010	620
03/16/11	8:45	21	3,837	6	169.0	3.0	0.007664	0.012	625
03/16/11	9:00	21	4,419	6	175.1	2.8	0.008228	0.013	712
03/16/11	9:15	20	4,390	6	169.3	2.9	0.007457	0.012	715
03/16/11	9:30	20	3,801	6	175.1	2.1	0.006151	0.010	614
03/16/11	9:45	20	4,092	6	175.8	2.1	0.006250	0.010	661
03/16/11	10:00	20	3,971	6	180.9	2.3	0.007687	0.012	635
03/16/11	10:15	20	4,341	6	182.7	2.5	0.008708	0.014	691
03/16/11	10:45	20	4,165	6	185.6	2.5	0.009286	0.015	659
03/16/11	11:15	20	4,179	6	185.0	2.2	0.008050	0.013	663
03/16/11	11:45	20	4,058	6	188.2	2.1	0.008238	0.013	641
03/16/11	12:15	20	4,341	6	194.4	1.9	0.008509	0.013	678
03/16/11	12:45	20	4,107	6	186.3	2.0	0.007522	0.012	651
03/16/11	13:15	20	4,027	6	188.1	1.8	0.007032	0.011	637
03/16/11	13:45	20	4,140	6	184.6	2.3	0.008347	0.013	657
03/16/11	14:15	20	3,908	6	188.4	1.7	0.006681	0.011	618
03/16/11	14:45	19	4,213	6	190.4	1.7	0.006977	0.011	664
03/16/11	15:15	19	4,099	6	187.7	1.4	0.005409	0.009	650
03/16/11	15:45	19	3,903	6	192.5	1.5	0.006432	0.010	614
03/16/11	16:15	19	4,206	6	194.4	1.6	0.007150	0.011	659
Averages		20	4,096	6	182.5	2.2	0.007406	0.012	653

NOTES
Qstd = Flow at DSCFM
Vacuum = The level of vacuum being applied, recorded from the vacuum truck tank (inches of Hg)
Velocity = The rate at which air flow is measured at the blower discharge piping (anemometer or pitot tube)
Pipe ID = The inside diameter of the blower discharge piping (from the vacuum truck)
Temperature = The temperature of the air stream exiting the blower discharge piping (dry bulb temp., in °F)
Relative humidity = The % relative humidity of the air stream exiting the blower discharge piping
B_{wsw} = water vapor % by weight, i.e., pounds of water per pound of dry air, derived from the Psychrometric chart (temp Vs relative humidity)
B_{ws} = water vapor % by volume

EQUATIONS

$B_{ws} = (B_{wsw}/18 \text{ lb-mole } H_20)/[(1/28.84 \text{ lb-mole dry air}) + (B_{wsw}/18 \text{ lb-mole } H_2O)]$

$Q_{std} = (1\text{-Water Vapor}) * \text{velocity} * (\text{PI} * (\text{diameter}/24)^2) * (528°R/(\text{Temp} + 460))$

EMISSION CALCULATIONS

SITE NAME: 378 Truck Stop AFVR EVENT DATE: 3/16/2011

Elapsed Time (min)	Flow (DSCFM)	$PPM_{measured}$ (ppm)	PPM_{wet}	PPM_{dry}	RF	PPM_{conc}	$C_{c:m}$ (mg/dsm^3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR (lb)
0	--	--	--	--	--	--	--	--	--	--	
15	620	0	0	0	1.02	0	0	0.00000	0.00	0.00	0.00
30	625	0	0	0	1.02	0	0	0.00000	0.00	0.00	0.00
45	712	0	0	0	1.02	0	0	0.00000	0.00	0.00	0.00
60	715	7	7	7	1.02	7	4	0.00000	0.01	0.01	0.00
75	614	8	8	8	1.02	8	4	0.00000	0.01	0.01	0.00
90	661	9	9	9	1.02	9	5	0.00000	0.01	0.01	0.00
105	635	15	15	15	1.02	15	8	0.00000	0.02	0.02	0.01
120	691	22	22	22	1.02	23	11	0.00000	0.03	0.03	0.01
150	659	20	20	20	1.02	21	10	0.00000	0.03	0.03	0.01
180	663	30	30	30	1.02	31	15	0.00000	0.04	0.04	0.02
210	641	28	28	28	1.02	29	14	0.00000	0.03	0.04	0.02
240	678	19	19	19	1.02	20	10	0.00000	0.02	0.03	0.01
270	651	11	11	11	1.02	11	6	0.00000	0.01	0.02	0.01
300	637	4	4	4	1.02	4	2	0.00000	0.00	0.01	0.00
330	657	9	9	9	1.02	9	5	0.00000	0.01	0.01	0.01
360	618	16	16	16	1.02	16	8	0.00000	0.02	0.02	0.01
390	664	11	11	11	1.02	11	6	0.00000	0.01	0.02	0.01
420	650	10	10	10	1.02	10	5	0.00000	0.01	0.01	0.01
450	614	8	8	8	1.02	8	4	0.00000	0.01	0.01	0.01
480	659	7	7	7	1.02	7	4	0.00000	0.01	0.01	0.01
Averages	653	12	12	12	1.02	12	6	0.00000	0.01	0.02	0.01

Total emissions in pounds: 0.15
Total emissions in gallons: 0.02

NOTES

$PPM_{measured}$ = Actual measurements (ppm) taken with TLV at the blower discharge piping
PPM_{wet} = "wet" concentration
PPM_{dry} = "dry" concentration
RF (Response Factor) = Multiplying factor for converting ppm meter readings of hexane-calibrated instruments to ppm concentrations of other gases: 1.02 for benzene; 1.03 for toluene; 1.64 for o-xylene. Multiplying factor obtained from Instruction Manual for TLV Sniffer® by Bacharach, Inc., Instruction 23-9613, rev.2, January 1990.
K = Number of carbons in calibration gas: (Methane K = 1, or Propane K = 3, or Hexane K = 6)
PPM_c= PPM_v, Volumetric concentration of VOC emissions as carbon, dry basis at STP
$C_{c:m}$ = mg/dsm^3, mass concentration of VOC emissions as carbon
M_c = 12.01 mg/mg-mole, molecular weight of carbon
K_3 = 24.07 $dsm^3/10^6$ mg-mole, mass to volume conversion factor at STP
C_c = lb/dcsf, mass concentration of VOC emissions as carbon, dry basis at STP
PMR_c = lb/hr, pollutant mass removal rate of VOC's as carbon
PMR_g = lb/hr, pollutant mass removal rate of of VOC's as gasoline
PMR = lb, pollutant mass removal of VOC's as gasoline

EQUATIONS

$PPM_{wet} = PPM_{measured}$

$PPM_{dry} = (PPM_{wet})/(1-B_{ws})$

$PPM_c = (PPM_d)(K)$

$C_{c:m} = (PPM_c)(M_c / K_3)$

$C_c = (C_{c:m})(62.43x10^{-9}\ lb\text{-}m^3/mg\text{-}ft^3)$

$PMR_c = (C_c)(Q_{std})(60\ min/hr)$

$PMR_g = (PMR_c)(M_g/M_{cg})$

$PMR = (PMR_g)(\#minutes/60)$

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 803-957-9175	4. Waste Tracking Number 30975

5. Generator's Name and Mailing Address: Wilkerson Fuel & Oil, 731 Highway 378, Edgefield, SC

Generator's Site Address (if different than mailing address): Environmental Compliance Services

Generator's Phone:

6. Transporter 1 Company Name: A&D Environmental Services (SC) LLC — U.S. EPA ID Number: SCD987598331

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: A&D Environmental Services (SC) LLC, 1741 Calks Ferry Road, Lexington, SC 29073 — U.S. EPA ID Number: SCD987598331

Facility's Phone: 803-957-9175

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1. NON-HAZARDOUS NON-REGULATED MATERIAL Oily Water		TT	Apprxs 233	GALS	0 Free Product (sheen)
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

In Case of Emergency Call: 803-957-9175 A&D (SC) Job #11441

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Brentley McNeill Agent for Wilkerson Fuel Company — Signature: [signature] — Month 3 Day 16 Year 11

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Bryan Richardson — Signature: Bryan Richardson — Month 3 Day 16 Year 11

Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: JOHN P RAO — Signature: John P Rao — Month 3 Day 16 Year 11

169-BLC-O 6 10498 (Rev. 9/09) DESIGNATED FACILITY TO GENERATOR

APPENDIX B

Groundwater Sampling Field Data Sheets

GAUGE REPORT

Environmental Compliance Services, Inc.
13504 South Point Blvd., Unit F
Charlotte, North Carolina 28273

Project Name 378 Truck Stop
Project No. 14-214210
Measured By A. Williamson

Location Edgefield, SC
Date 04/19/11
Weather Sunny, 80s

Well ID	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Product Recovered (gallons)	Well Depth (feet)	Volume Purged (gallons)
MW-1	-----	21.70	-----	-----	44.81	4.77
MW-2	-----	23.34	-----	-----	41.29	8.78
MW-3	-----	23.78	-----	-----	40.02	0.00
MW-4	-----	22.12	-----	-----	39.91	0.00
MW-5	-----	27.63	-----	-----	39.73	0.00
MW-6	-----	23.06	-----	-----	35.06	0.00
MW-7	-----	21.04	-----	-----	34.92	0.00
MW-8	-----	22.51	-----	-----	35.08	0.00
MW-9	-----	24.13	-----	-----	35.19	0.00
MW-10	-----	26.18	-----	-----	40.18	0.00
MW-11	-----	25.59	-----	-----	35.24	0.00
MW-12	-----	26.11	-----	-----	34.99	0.00
MW-13	-----	23.50	-----	-----	40.19	8.16
MW-14	-----	28.52	-----	-----	39.75	0.00
MW-15	-----	25.18	-----	-----	40.13	0.00
MW-16	-----	24.59	-----	-----	40.11	6.31
MW-17	-----	18.20	-----	-----	35.01	8.22
MW-18	-----	15.71	-----	-----	35.68	6.52
MW-19	-----	21.63	-----	-----	38.57	8.28
MW-20	-----	37.72	-----	-----	45.03	0.00
MW-21	-----	24.19	-----	-----	40.15	7.80
MW-22	-----	28.56	-----	-----	40.08	0.00
MW-23	-----	19.69	-----	-----	37.21	8.57
MW-24	-----	25.58	-----	-----	40.02	0.00
MW-25	-----	23.44	-----	-----	39.98	8.10
MW-26	-----	21.07	-----	-----	38.72	6.76
MW-27	-----	24.42	-----	-----	35.09	0.00
MW-28	-----	20.91	-----	-----	40.04	4.62
TW-1	-----	25.53	-----	-----	63.28	18.46
TW-2	-----	23.83	-----	-----	80.23	10.44
TW-3	-----	23.83	-----	-----	80.63	20.52
TW-4	-----	27.11	-----	-----	68.55	8.75
TW-5	-----	25.96	-----	-----	58.38	7.78
TW-6	-----	25.25	-----	-----	58.54	6.93
TW-7	-----	16.83	-----	-----	58.95	10.87
TW-8	-----	22.19	-----	-----	58.53	8.92
TW-9	-----	21.14	-----	-----	80.09	28.83

GAUGE REPORT

Environmental Compliance Services, Inc.
13504 South Point Blvd., Unit F
Charlotte, North Carolina 28273

Project Name	378 Truck Stop	Location	Edgefield, SC
Project No.	14-214210	Date	04/19/11
Measured By	A. Williamson	Weather	Sunny, 80s

Well ID	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Product Recovered (gallons)	Well Depth (feet)	Volume Purged (gallons)
WSW-1 PRE	Water Supply Wells Not Gauged					
WSW-1 POST						
WSW-2						
WSW-3						
WSW-4						
WSW-5						
WSW-6						
WSW-7						
WSW-8 PRE						
WSW-8 POST						
WSW-9						
WSW-10						
WSW-11						
WSW-12						
WSW-13						
WSW-14						
WSW-15						

Remarks: MW-20 is a stickup well.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/19/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-1**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 44.81 ft.
Depth to GW(DGW) 21.70 ft.

Length of Water Column (LWC=TWD-DGW) 23.11 ft.

1Csg. Vol. (LWC*C)= 23.11 X 0.163 = 3.77 gal.
3Csg. Volume = 3x 3.77 = 11.30 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 4.77 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	3.77	1.00					0.00
Time (military)	14:13	14:20						14:30
pH (s.u.)	5.46	5.46						5.55
O.R.P. (mV)	49	44						23
Temperature (°C)	21.05	20.27						20.46
Specific Cond. (mS/cm)	0.101	0.102						0.123
Dissolved Oxygen (mg/L)	1.34	1.91						4.20
Turbidity (NTU)	220.0	922.0						221.0

Remarks Purged dry after one well volume plus 1 gallon.
Strong petroleum odor.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-2**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 41.29 ft.
Depth to GW(DGW) 23.34 ft.

Length of Water Column (LWC=TWD-DGW) 17.95 ft.

1Csg. Vol. (LWC*C)= 17.95 X 0.163 = 2.93 gal.
3Csg. Volume = 3x 2.93 = 8.78 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 8.78 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.93	2.93	2.93				0.00
Time (military)	16:50	16:55	17:01	17:06				17:10
pH (s.u.)	6.68	6.59	6.40	6.50				6.44
O.R.P. (mV)	-63	-61	-59	-55				-55
Temperature (°C)	21.62	21.23	21.12	20.98				21.40
Specific Cond. (mS/cm)	0.485	0.441	0.412	0.399				0.402
Dissolved Oxygen (mg/L)	1.72	1.76	1.36	1.84				1.26
Turbidity (NTU)	16.5	>999	>999	>999				>999

Remarks Purged and sampled.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy)	04/19/11
Field Personnel	A. Williamson
General Weather Conditions	Sunny
Ambient Air Temperature	80 F
Facility Name	378 Truck Stop
Site ID#	07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **MW-3**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.02 ft.
Depth to GW(DGW) 23.78 ft.

Length of Water Column (LWC=TWD-DGW) 16.24 ft.

1Csg. Vol. (LWC*C)= 16.24 X 0.163 = 2.65 gal.
3Csg. Volume = 3x 2.65 = 7.94 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								13:05
pH (s.u.)								6.45
O.R.P. (mV)								13
Temperature (°C)								21.45
Specific Cond. (mS/cm)								0.650
Dissolved Oxygen (mg/L)								2.23
Turbidity (NTU)								29.0

Remarks Strong petroleum odor.
No-purge sample collected.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-4**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 39.91 ft.
Depth to GW(DGW) 22.12 ft.

Length of Water Column (LWC=TWD-DGW) 17.79 ft.

1Csg. Vol. (LWC*C)= 17.79 X 0.163 = 2.90 gal.
3Csg. Volume = 3x 2.90 = 8.70 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								16:05
pH (s.u.)								6.63
O.R.P. (mV)								1
Temperature (°C)								21.34
Specific Cond. (mS/cm)								0.364
Dissolved Oxygen (mg/L)								2.10
Turbidity (NTU)								3.3

Remarks No-purge sample collected.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **MW-5**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 39.73 ft.
Depth to GW(DGW) 27.63 ft.

Length of Water Column (LWC=TWD-DGW) 12.10 ft.

1Csg. Vol. (LWC*C)= 12.10 X 0.163 = 1.97 gal.
3Csg. Volume = 3x 1.97 = 5.92 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								15:35
pH (s.u.)								5.75
O.R.P. (mV)								130
Temperature (°C)								19.22
Specific Cond. (mS/cm)								0.706
Dissolved Oxygen (mg/L)								3.35
Turbidity (NTU)								56.9

Remarks No-purge sample collected.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-6**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 35.06 ft.
Depth to GW(DGW) 23.06 ft.

Length of Water Column (LWC=TWD-DGW) 12.00 ft.

1Csg. Vol. (LWC*C)= 12.00 X 0.163 = 1.96 gal.
3Csg. Volume = 3x 1.96 = 5.87 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								15:45
pH (s.u.)								5.68
O.R.P. (mV)								142
Temperature (°C)								18.86
Specific Cond. (mS/cm)								0.102
Dissolved Oxygen (mg/L)								3.12
Turbidity (NTU)								18.6

Remarks No-purge sample collected.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-7**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 34.92 ft.
Depth to GW(DGW) 21.04 ft.

Length of Water Column (LWC=TWD-DGW) 13.88 ft.

1Csg. Vol. (LWC*C)= 13.88 X 0.163 = 2.26 gal.
3Csg. Volume = 3x 2.26 = 6.79 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								16:20
pH (s.u.)								6.08
O.R.P. (mV)								41
Temperature (°C)								21.12
Specific Cond. (mS/cm)								0.087
Dissolved Oxygen (mg/L)								2.01
Turbidity (NTU)								0.0

Remarks No-purge sample collected.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **MW-8**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 35.08 ft.
Depth to GW(DGW) 22.51 ft.

Length of Water Column (LWC=TWD-DGW) 12.57 ft.

1Csg. Vol. (LWC*C)= 12.57 X 0.163 = 2.05 gal.
3Csg. Volume = 3x 2.05 = 6.15 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								15:55
pH (s.u.)								5.69
O.R.P. (mV)								151
Temperature (°C)								21.36
Specific Cond. (mS/cm)								0.558
Dissolved Oxygen (mg/L)								6.01
Turbidity (NTU)								3.5

Remarks No-purge sample collected.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/19/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **MW-9**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 35.19 ft.
Depth to GW(DGW) 24.13 ft.

Length of Water Column (LWC=TWD-DGW) 11.06 ft.

1Csg. Vol. (LWC*C)= 11.06 X 0.163 = 1.80 gal.
3Csg. Volume = 3x 1.80 = 5.41 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								15:30
pH (s.u.)								5.46
O.R.P. (mV)								60
Temperature (°C)								18.85
Specific Cond. (mS/cm)								0.778
Dissolved Oxygen (mg/L)								4.48
Turbidity (NTU)								1.8

Remarks No-purge sample collected.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/19/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **MW-10**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.18 ft.
Depth to GW(DGW) 26.18 ft.

Length of Water Column (LWC=TWD-DGW) 14.00 ft.

1Csg. Vol. (LWC*C)= 14.00 X 0.163 = 2.28 gal.
3Csg. Volume = 3x 2.28 = 6.85 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								16:25
pH (s.u.)								7.19
O.R.P. (mV)								2
Temperature (°C)								19.22
Specific Cond. (mS/cm)								0.545
Dissolved Oxygen (mg/L)								6.10
Turbidity (NTU)								0.0

Remarks No-purge sample collected.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-11**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 35.24 ft.
Depth to GW(DGW) 25.59 ft.

Length of Water Column (LWC=TWD-DGW) 9.65 ft.

1Csg. Vol. (LWC*C)= 9.65 X 0.163 = 1.57 gal.
3Csg. Volume = 3x 1.57 = 4.72 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								13:40
pH (s.u.)								7.18
O.R.P. (mV)								-13
Temperature (°C)								20.33
Specific Cond. (mS/cm)								0.452
Dissolved Oxygen (mg/L)								1.65
Turbidity (NTU)								5.0

Remarks No-purge sample collected.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop   Site ID# 07960

Quality Assurance:

pH Meter Horiba U22   Conductivity Meter Horiba U22
serial no. T908009   serial no. T908009
pH = 4.0   Standard
pH = 7.0   Standard
pH = 10.0   Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-12**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 34.99 ft.
Depth to GW(DGW) 26.11 ft.

Length of Water Column (LWC=TWD-DGW) 8.88 ft.

1Csg. Vol. (LWC*C)= 8.88 X 0.163 = 1.45 gal.
3Csg. Volume = 3x 1.45 = 4.34 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								13:15
pH (s.u.)								8.18
O.R.P. (mV)								-120
Temperature (°C)								19.62
Specific Cond. (mS/cm)								1.79
Dissolved Oxygen (mg/L)								0.683
Turbidity (NTU)								5.9

Remarks No-purge sample collected.
Moderate petroleum odor.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **MW-13**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.19 ft.
Depth to GW(DGW) 23.50 ft.

Length of Water Column (LWC=TWD-DGW) 16.69 ft.

1Csg. Vol. (LWC*C)= 16.69 X 0.163 = 2.72 gal.
3Csg. Volume = 3x 2.72 = 8.16 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 8.16 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.72	2.72	2.72				0.00
Time (military)	14:44	14:49	14:53	14:58				15:00
pH (s.u.)	6.86	6.86	6.66	6.35				6.19
O.R.P. (mV)	-25	-42	-24	17				45
Temperature (°C)	19.68	19.18	19.22	19.33				19.41
Specific Cond. (mS/cm)	1.07	1.07	1.07	1.09				1.10
Dissolved Oxygen (mg/L)	2.17	1.51	1.59	1.65				2.07
Turbidity (NTU)	0.0	564.0	>999	>999				>999

Remarks Purged and sampled.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-14**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 39.75 ft.
Depth to GW(DGW) 28.52 ft.

Length of Water Column (LWC=TWD-DGW) 11.23 ft.

1Csg. Vol. (LWC*C)= 11.23 X 0.163 = 1.83 gal.
3Csg. Volume = 3x 1.83 = 5.49 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								13:50
pH (s.u.)								6.72
O.R.P. (mV)								15
Temperature (°C)								19.57
Specific Cond. (mS/cm)								0.483
Dissolved Oxygen (mg/L)								1.55
Turbidity (NTU)								26.5

Remarks No-purge sample collected.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **MW-15**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.13 ft.
Depth to GW(DGW) 25.18 ft.

Length of Water Column (LWC=TWD-DGW) 14.95 ft.

1Csg. Vol. (LWC*C)= 14.95 X 0.163 = 2.44 gal.
3Csg. Volume = 3x 2.44 = 7.31 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								14:10
pH (s.u.)								6.16
O.R.P. (mV)								80
Temperature (°C)								18.60
Specific Cond. (mS/cm)								0.563
Dissolved Oxygen (mg/L)								2.59
Turbidity (NTU)								0.0

Remarks No-purge sample collected.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/19/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **MW-16**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.11 ft.
Depth to GW(DGW) 24.59 ft.

Length of Water Column (LWC=TWD-DGW) 15.52 ft.

1Csg. Vol. (LWC*C)= 15.52 X 0.163 = 2.53 gal.
3Csg. Volume = 3x 2.53 = 7.59 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 6.31 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.53	2.53	1.25				0.00
Time (military)	18:52	18:57	19:02					19:10
pH (s.u.)	6.86	6.62	6.81					6.80
O.R.P. (mV)	-6	9	-33					-29
Temperature (°C)	18.04	17.82	17.97					18.06
Specific Cond. (mS/cm)	1.01	1.00	1.01					1.02
Dissolved Oxygen (mg/L)	1.48	1.59	1.50					1.78
Turbidity (NTU)	201.0	121.0	171.0					608.0

Remarks Purged dry after two well volumes plus 1.25 gallons.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-17**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 35.01 ft.
Depth to GW(DGW) 18.20 ft.

Length of Water Column (LWC=TWD-DGW) 16.81 ft.

1Csg. Vol. (LWC*C)= 16.81 X 0.163 = 2.74 gal.
3Csg. Volume = 3x 2.74 = 8.22 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 8.22 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.74	2.74	2.74				0.00
Time (military)	11:15	11:20	11:25	11:29				11:30
pH (s.u.)	7.60	6.94	6.59	6.45				6.41
O.R.P. (mV)	24	95	141	162				178
Temperature (°C)	19.05	18.68	18.83	19.09				19.29
Specific Cond. (mS/cm)	0.427	0.151	0.115	0.106				0.100
Dissolved Oxygen (mg/L)	6.69	6.49	6.59	6.54				6.52
Turbidity (NTU)	353.0	918.0	695.0	>999				927.0

Remarks Purged and sampled.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-18**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 35.68 ft.
Depth to GW(DGW) 15.71 ft.

Length of Water Column (LWC=TWD-DGW) 19.97 ft.

1Csg. Vol. (LWC*C)= 19.97 X 0.163 = 3.26 gal.
3Csg. Volume = 3x 3.26 = 9.77 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 6.52 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	3.26	3.26					0.00
Time (military)	11:57	12:04	12:10					12:35
pH (s.u.)	7.40	6.72	6.64					6.39
O.R.P. (mV)	54	132	142					159
Temperature (°C)	18.23	18.20	18.63					19.12
Specific Cond. (mS/cm)	0.438	0.219	0.228					0.243
Dissolved Oxygen (mg/L)	6.97	5.94	6.37					5.93
Turbidity (NTU)	206.0	>999	>999					>999

Remarks Purged dry after 2 well volumes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **MW-19**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 38.57 ft.
Depth to GW(DGW) 21.63 ft.

Length of Water Column (LWC=TWD-DGW) 16.94 ft.

1Csg. Vol. (LWC*C)= 16.94 X 0.163 = 2.76 gal.
3Csg. Volume = 3x 2.76 = 8.28 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 8.28 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.76	2.76	2.76				0.00
Time (military)	9:40	9:45	9:49	9:54				9:55
pH (s.u.)	8.01	6.45	6.12	6.00				5.95
O.R.P. (mV)	-87	109	154	168				173
Temperature (°C)	18.43	18.31	18.37	18.59				18.82
Specific Cond. (mS/cm)	0.244	0.130	0.102	0.101				0.103
Dissolved Oxygen (mg/L)	2.43	4.04	3.62	3.86				3.66
Turbidity (NTU)	>999	>999	705.0	>999				>999

Remarks Purged and sampled.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **MW-20**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 45.03 ft.
Depth to GW(DGW) 37.72 ft.

Length of Water Column (LWC=TWD-DGW) 7.31 ft.

1Csg. Vol. (LWC*C)= 7.31 X 0.163 = 1.19 gal.
3Csg. Volume = 3x 1.19 = 3.57 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								15:20
pH (s.u.)								5.92
O.R.P. (mV)								109
Temperature (°C)								19.29
Specific Cond. (mS/cm)								0.429
Dissolved Oxygen (mg/L)								4.47
Turbidity (NTU)								187.0

Remarks No-purge sample collected.
Approximately 3 foot stick up well.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/21/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-21**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.15 ft.
Depth to GW(DGW) 24.19 ft.

Length of Water Column (LWC=TWD-DGW) 15.96 ft.

1Csg. Vol. (LWC*C)= 15.96 X 0.163 = 2.60 gal.
3Csg. Volume = 3x 2.60 = 7.80 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 7.80 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.60	2.60	2.60				0.00
Time (military)	8:31	8:36	8:40	8:45				8:50
pH (s.u.)	6.69	6.60	6.48	6.47				6.50
O.R.P. (mV)	116	111	118	116				105
Temperature (°C)	19.18	18.85	18.88	19.04				18.99
Specific Cond. (mS/cm)	0.612	0.589	0.598	0.573				0.587
Dissolved Oxygen (mg/L)	1.23	1.66	1.59	2.17				1.81
Turbidity (NTU)	138.0	>999	>999	>999				>999

Remarks Purged and sampled.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **MW-22**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.08 ft.
Depth to GW(DGW) 28.56 ft.

Length of Water Column (LWC=TWD-DGW) 11.52 ft.

1Csg. Vol. (LWC*C)= 11.52 X 0.163 = 1.88 gal.
3Csg. Volume = 3x 1.88 = 5.63 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								14:00
pH (s.u.)								6.11
O.R.P. (mV)								82
Temperature (°C)								19.48
Specific Cond. (mS/cm)								0.94
Dissolved Oxygen (mg/L)								1.65
Turbidity (NTU)								0.9

Remarks No-purge sample collected.
Slight petroleum odor.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop   Site ID# 07960

Quality Assurance:

pH Meter Horiba U22   Conductivity Meter Horiba U22
serial no. T908009   serial no. T908009
pH = 4.0   Standard
pH = 7.0   Standard
pH = 10.0   Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-23**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 37.21 ft.
Depth to GW(DGW) 19.69 ft.

Length of Water Column (LWC=TWD-DGW) 17.52 ft.

1Csg. Vol. (LWC*C)= 17.52 X 0.163 = 2.86 gal.
3Csg. Volume = 3x 2.86 = 8.57 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 8.57 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.86	2.86	2.86				0.00
Time (military)	10:23	10:27	10:33	10:38				10:40
pH (s.u.)	6.94	6.46	6.35	6.34				6.26
O.R.P. (mV)	95	148	158	157				161
Temperature (°C)	18.96	18.64	18.93	18.90				19.10
Specific Cond. (mS/cm)	0.323	0.151	0.149	0.154				0.154
Dissolved Oxygen (mg/L)	4.68	4.39	4.80	3.63				3.52
Turbidity (NTU)	0.0	700.0	634.0	>999				>999

Remarks Purged and sampled.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/19/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-24**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.02 ft.
Depth to GW(DGW) 25.58 ft.

Length of Water Column (LWC=TWD-DGW) 14.44 ft.

1Csg. Vol. (LWC*C)= 14.44 X 0.163 = 2.35 gal.
3Csg. Volume = 3x 2.35 = 7.06 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								17:55
pH (s.u.)								6.25
O.R.P. (mV)								78
Temperature (°C)								18.50
Specific Cond. (mS/cm)								0.735
Dissolved Oxygen (mg/L)								3.13
Turbidity (NTU)								0.0

Remarks No-purge sample collected.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-25**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 39.98 ft.
Depth to GW(DGW) 23.44 ft.

Length of Water Column (LWC=TWD-DGW) 16.54 ft.

1Csg. Vol. (LWC*C)= 16.54 X 0.163 = 2.70 gal.
3Csg. Volume = 3x 2.70 = 8.09 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 8.10 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.70	2.70	2.70				0.00
Time (military)	8:35	8:39	8:44	8:48				8:55
pH (s.u.)	6.14	6.10	6.09	6.10				6.12
O.R.P. (mV)	119	123	125	124				124
Temperature (°C)	18.34	17.96	17.96	17.90				18.20
Specific Cond. (mS/cm)	0.402	0.401	0.394	0.385				0.376
Dissolved Oxygen (mg/L)	2.90	2.13	3.37	3.09				3.82
Turbidity (NTU)	29.2	>999	771.0	>999				>999

Remarks Purged and sampled.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/19/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **MW-26**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 38.72 ft.
Depth to GW(DGW) 21.07 ft.

Length of Water Column (LWC=TWD-DGW) 17.65 ft.

1Csg. Vol. (LWC*C)= 17.65 X 0.163 = 2.88 gal.
3Csg. Volume = 3x 2.88 = 8.63 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 6.76 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	2.88	2.88	1.00				0.00
Time (military)	18:06	18:10	18:14					18:20
pH (s.u.)	6.37	6.03	5.97					6.00
O.R.P. (mV)	55	98	109					111
Temperature (°C)	18.08	17.98	18.06					18.22
Specific Cond. (mS/cm)	0.601	0.572	0.559					0.590
Dissolved Oxygen (mg/L)	3.62	4.35	3.80					3.50
Turbidity (NTU)	>999	>999	965.0					>999

Remarks Purged dry after two well volumes plus 1 gallon.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-27**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 35.09 ft.
Depth to GW(DGW) 24.42 ft.

Length of Water Column (LWC=TWD-DGW) 10.67 ft.

1Csg. Vol. (LWC*C)= 10.67 X 0.163 = 1.74 gal.
3Csg. Volume = 3x 1.74 = 5.22 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 0.00 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								16:30
pH (s.u.)								6.24
O.R.P. (mV)								16
Temperature (°C)								19.75
Specific Cond. (mS/cm)								0.293
Dissolved Oxygen (mg/L)								2.95
Turbidity (NTU)								0.0

Remarks No-purge sample collected.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/21/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **MW-28**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 40.04 ft.
Depth to GW(DGW) 20.91 ft.

Length of Water Column (LWC=TWD-DGW) 19.13 ft.

1Csg. Vol. (LWC*C)= 19.13 X 0.163 = 3.12 gal.
3Csg. Volume = 3x 3.12 = 9.35 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 4.62 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	3.12	1.50					0.00
Time (military)	8:59	9:04	9:08					9:15
pH (s.u.)	6.17	6.33	6.21					6.15
O.R.P. (mV)	139	103	119					127
Temperature (°C)	18.34	18.06	18.14					18.35
Specific Cond. (mS/cm)	0.268	0.257	0.251					0.260
Dissolved Oxygen (mg/L)	1.42	1.59	1.72					1.82
Turbidity (NTU)	235.0	>999	>999					>999

Remarks Purged dry after one well volume + 1.5 gallons.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/19/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **TW-1**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 63.28 ft.
Depth to GW(DGW) 25.53 ft.

Length of Water Column (LWC=TWD-DGW) 37.75 ft.

1Csg. Vol. (LWC*C)= 37.75 X 0.163 = 6.15 gal.
3Csg. Volume = 3x 6.15 = 18.46 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 18.46 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	6.15	6.15	6.15				0.00
Time (military)	13:24	13:37	13:47	13:58				14:00
pH (s.u.)	6.04	6.48	6.55	6.49				6.44
O.R.P. (mV)	38	-41	-56	-58				-59
Temperature (°C)	21.31	20.58	20.32	20.27				20.25
Specific Cond. (mS/cm)	0.502	0.449	0.443	0.410				0.409
Dissolved Oxygen (mg/L)	3.43	2.88	2.65	2.59				2.32
Turbidity (NTU)	8.3	16.0	9.3	15.5				2.0

Remarks Purged and sampled.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/19/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **TW-2**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 80.23 ft.
Depth to GW(DGW) 23.83 ft.

Length of Water Column (LWC=TWD-DGW) 56.40 ft.

1Csg. Vol. (LWC*C)= 56.40 X 0.163 = 9.19 gal.
3Csg. Volume = 3x 9.19 = 27.58 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 10.44 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	9.19	1.25					0.00
Time (military)	12:33	12:56						13:10
pH (s.u.)	5.87	6.69						7.42
O.R.P. (mV)	22	31						-84
Temperature (°C)	21.42	21.23						20.78
Specific Cond. (mS/cm)	5.96	5.33						5.57
Dissolved Oxygen (mg/L)	5.89	6.33						5.91
Turbidity (NTU)	0.0	21.3						33.0

Remarks Purged dry after one well volume plus 1.25 gallons.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/19/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **TW-3**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 80.63 ft.
Depth to GW(DGW) 23.83 ft.

Length of Water Column (LWC=TWD-DGW) 56.80 ft.

1Csg. Vol. (LWC*C)= 56.80 X 0.163 = 9.26 gal.
3Csg. Volume = 3x 9.26 = 27.78 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 20.52 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	9.26	9.26	2.00				0.00
Time (military)	14:52	15:08	15:28					15:40
pH (s.u.)	7.80	7.13	6.51					5.76
O.R.P. (mV)	-242	-138	-62					40
Temperature (°C)	20.44	19.52	19.41					18.66
Specific Cond. (mS/cm)	0.531	0.567	0.577					0.634
Dissolved Oxygen (mg/L)	1.33	2.26	1.96					1.65
Turbidity (NTU)	527.0	35.6	24.7					1.9

Remarks Purged dry after 2 well volumes plus 2 gallons.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/19/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **TW-4**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 68.55 ft.
Depth to GW(DGW) 27.11 ft.

Length of Water Column (LWC=TWD-DGW) 41.44 ft.

1Csg. Vol. (LWC*C)= 41.44 X 0.163 = 6.75 gal.
3Csg. Volume = 3x 6.75 = 20.26 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 8.75 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	6.75	2.00					0.00
Time (military)	15:59	16:13						16:35
pH (s.u.)	8.25	8.08						8.11
O.R.P. (mV)	-102	-80						-76
Temperature (°C)	19.35	19.76						19.12
Specific Cond. (mS/cm)	9.20	7.95						10.06
Dissolved Oxygen (mg/L)	7.53	7.20						5.46
Turbidity (NTU)	0.0	4.2						9.3

Remarks Purged dry after one well volume plus 2 gallons.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **TW-5**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 58.38 ft.
Depth to GW(DGW) 25.96 ft.

Length of Water Column (LWC=TWD-DGW) 32.42 ft.

1Csg. Vol. (LWC*C)= 32.42 X 0.163 = 5.28 gal.
3Csg. Volume = 3x 5.28 = 15.85 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 7.78 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	5.28	2.50					0.00
Time (military)	12:55	13:04						13:20
pH (s.u.)	6.83	7.03						8.36
O.R.P. (mV)	103	88						-131
Temperature (°C)	20.45	19.91						19.70
Specific Cond. (mS/cm)	0.339	0.441						0.733
Dissolved Oxygen (mg/L)	6.09	4.23						5.61
Turbidity (NTU)	10.1	92.4						82.9

Remarks Purged dry after one well volume plus 2.5 gallons.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/19/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **TW-6**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 58.54 ft.
Depth to GW(DGW) 25.25 ft.

Length of Water Column (LWC=TWD-DGW) 33.29 ft.

1Csg. Vol. (LWC*C)= 33.29 X 0.163 = 5.43 gal.
3Csg. Volume = 3x 5.43 = 16.28 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 6.93 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	5.43	1.50					0.00
Time (military)	18:32	18:43						19:15
pH (s.u.)	6.33	6.41						6.84
O.R.P. (mV)	88	83						-37
Temperature (°C)	18.38	18.37						17.98
Specific Cond. (mS/cm)	0.616	0.625						0.645
Dissolved Oxygen (mg/L)	4.64	3.32						2.10
Turbidity (NTU)	18.6	264.0						144.0

Remarks Purged dry after one well volume plus 1.5 gallons.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **TW-7**

Well Diameter (D) 2.0 inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 58.95 ft.
Depth to GW(DGW) 16.83 ft.

Length of Water Column (LWC=TWD-DGW) 42.12 ft.

1Csg. Vol. (LWC*C)= 42.12 X 0.163 = 6.87 gal.
3Csg. Volume = 3x 6.87 = 20.60 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 10.87 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	6.87	4.00					0.00
Time (military)	10:54	11:04						11:40
pH (s.u.)	8.18	8.25						8.20
O.R.P. (mV)	-20	-23						2
Temperature (°C)	19.12	19.11						19.19
Specific Cond. (mS/cm)	15.70	15.70						15.40
Dissolved Oxygen (mg/L)	6.36	5.86						6.16
Turbidity (NTU)	6.3	5.2						36.7

Remarks Purged dry after one well volume plus 4 gallons.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **TW-8**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 58.53 ft.
Depth to GW(DGW) 22.19 ft.

Length of Water Column (LWC=TWD-DGW) 36.34 ft.

1Csg. Vol. (LWC*C)= 36.34 X 0.163 = 5.92 gal.
3Csg. Volume = 3x 5.92 = 17.77 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 8.92 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	5.92	3.00					0.00
Time (military)	9:21	9:31						10:05
pH (s.u.)	8.08	8.18						8.02
O.R.P. (mV)	-33	-37						-27
Temperature (°C)	18.79	18.66						19.11
Specific Cond. (mS/cm)	7.10	10.70						10.80
Dissolved Oxygen (mg/L)	6.11	4.31						6.10
Turbidity (NTU)	0.0	0.0						17.5

Remarks Purged dry after one well volume plus 3 gallons.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/19/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **TW-9**

Well Diameter (D) 2.0 inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 80.09 ft.
Depth to GW(DGW) 21.14 ft.

Length of Water Column (LWC=TWD-DGW) 58.95 ft.

1Csg. Vol. (LWC*C)= 58.95 X 0.163 = 9.61 gal.
3Csg. Volume = 3x 9.61 = 28.83 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling 28.83 gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)	0.00	9.61	9.61	9.61				0.00
Time (military)	16:58	17:11	17:26	17:41				17:45
pH (s.u.)	6.81	6.50	6.50	6.46				6.45
O.R.P. (mV)	52	68	57	54				55
Temperature (°C)	18.96	18.46	18.43	18.32				18.50
Specific Cond. (mS/cm)	0.90	0.999	0.90	0.923				0.923
Dissolved Oxygen (mg/L)	2.72	2.55	2.42	2.00				1.88
Turbidity (NTU)	1.6	14.2	0.4	0.0				0.0

Remarks Purged and sampled.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **WSW-1 PRE**

Well Diameter (D) -- inch or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) 0.00 ft.

1Csg. Vol. (LWC*C)= 0.00 X 0.163 = 0.00 gal.
3Csg. Volume = 3x 0.00 = 0.00 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								14:30
pH (s.u.)								6.25
O.R.P. (mV)								88
Temperature (°C)								20.21
Specific Cond. (mS/cm)								0.518
Dissolved Oxygen (mg/L)								7.38
Turbidity (NTU)								0.0

Remarks Sample collected from influent port prior to GAC unit. Purged approximately 10 minutes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **WSW-1 POST**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) 0.00 ft.

1Csg. Vol. (LWC*C)= 0.00 X 0.163 = 0.00 gal.
3Csg. Volume = 3x 0.00 = 0.00 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								14:20
pH (s.u.)								6.29
O.R.P. (mV)								77
Temperature (°C)								20.89
Specific Cond. (mS/cm)								0.521
Dissolved Oxygen (mg/L)								6.92
Turbidity (NTU)								0.0

Remarks Sample collected from effluent port after GAC unit. Purged approximately 10 minutes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/20/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **WSW-2**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) 0.00 ft.

1Csg. Vol. (LWC*C)= 0.00 X 0.163 = 0.00 gal.
3Csg. Volume = 3x 0.00 = 0.00 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								9:00
pH (s.u.)								6.08
O.R.P. (mV)								131
Temperature (°C)								19.02
Specific Cond. (mS/cm)								0.296
Dissolved Oxygen (mg/L)								7.20
Turbidity (NTU)								9.7

Remarks Sampled from spigot inside well house.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 05/03/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	5/3/11 14:20	Pace	5/4/11 13:55
Relinquished by	Date/Time	Received by	Date/Time

Well # **WSW-3**

Well Diameter (D) -- inch or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) 0.00 ft.

1Csg. Vol. (LWC*C)= 0.00 X 0.163 = 0.00 gal.
3Csg. Volume = 3x 0.00 = 0.00 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								11:00
pH (s.u.)								4.42
O.R.P. (mV)								169
Temperature (°C)								18.94
Specific Cond. (mS/cm)								0.269
Dissolved Oxygen (mg/L)								3.88
Turbidity (NTU)								13.7

Remarks Well pump disconnected and removed; house is vacant. Sampled water from open well hole in well house.
Measured total well depth = 102.30 ft

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/21/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **WSW-4**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) 0.00 ft.

1Csg. Vol. (LWC*C)= 0.00 X 0.163 = 0.00 gal.
3Csg. Volume = 3x 0.00 = 0.00 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								9:35
pH (s.u.)								6.07
O.R.P. (mV)								148
Temperature (°C)								17.97
Specific Cond. (mS/cm)								0.771
Dissolved Oxygen (mg/L)								4.44
Turbidity (NTU)								67.3

Remarks Sampled from spigot on side of house. Purged approximately 10 minutes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/21/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
--	--	--	--

Well # **WSW-5**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) 0.00 ft.

1Csg. Vol. (LWC*C)= 0.00 X 0.163 = 0.00 gal.
3Csg. Volume = 3x 0.00 = 0.00 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
O.R.P. (mV)								
Temperature (°C)								
Specific Cond. (mS/cm)								
Dissolved Oxygen (mg/L)								
Turbidity (NTU)								

Remarks Not sampled. Well pump is inoperable and still in place. House is vacant.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/21/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **WSW-6**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) 0.00 ft.

1Csg. Vol. (LWC*C)= 0.00 X 0.163 = 0.00 gal.
3Csg. Volume = 3x 0.00 = 0.00 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								10:00
pH (s.u.)								6.16
O.R.P. (mV)								142
Temperature (°C)								19.24
Specific Cond. (mS/cm)								0.300
Dissolved Oxygen (mg/L)								2.93
Turbidity (NTU)								4.0

Remarks Sampled from spigot on front of trailer. Purged approximately 10 minutes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/21/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **WSW-7**

Well Diameter (D) -- inch ______ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) 0.00 ft.

1Csg. Vol. (LWC*C)= 0.00 X 0.163 = 0.00 gal.
3Csg. Volume = 3x 0.00 = 0.00 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								10:10
pH (s.u.)								6.21
O.R.P. (mV)								135
Temperature (°C)								19.17
Specific Cond. (mS/cm)								0.293
Dissolved Oxygen (mg/L)								6.63
Turbidity (NTU)								1.0

Remarks Sampled from spigot on back side of building. Purged approximately 10 minutes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/21/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **WSW-8 PRE**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) 0.00 ft.

1Csg. Vol. (LWC*C)= 0.00 X 0.163 = 0.00 gal.
3Csg. Volume = 3x 0.00 = 0.00 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								11:45
pH (s.u.)								6.23
O.R.P. (mV)								137
Temperature (°C)								19.72
Specific Cond. (mS/cm)								0.485
Dissolved Oxygen (mg/L)								6.92
Turbidity (NTU)								0.0

Remarks Sample collected from influent port prior to GAC unit. Purged approximately 10 minutes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/21/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **WSW-8 PRE**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) 0.00 ft.

1Csg. Vol. (LWC*C)= 0.00 X 0.163 = 0.00 gal.
3Csg. Volume = 3x 0.00 = 0.00 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								11:55
pH (s.u.)								6.23
O.R.P. (mV)								143
Temperature (°C)								19.03
Specific Cond. (mS/cm)								0.483
Dissolved Oxygen (mg/L)								7.01
Turbidity (NTU)								0.0

Remarks Sample collected from effluent port after GAC unit. Purged approximately 10 minutes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/21/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45
Relinquished by	Date/Time	Received by	Date/Time

Well # **WSW-9**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) 0.00 ft.

1Csg. Vol. (LWC*C)= 0.00 X 0.163 = 0.00 gal.
3Csg. Volume = 3x 0.00 = 0.00 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								10:25
pH (s.u.)								6.52
O.R.P. (mV)								80
Temperature (°C)								19.03
Specific Cond. (mS/cm)								0.321
Dissolved Oxygen (mg/L)								3.89
Turbidity (NTU)								0.0

Remarks Sampled from spigot on side of shed next to well house. Purged approximately 10 minutes.
Was informed by resident this well is 58 feet deep.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/21/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **WSW-10**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) 0.00 ft.

1Csg. Vol. (LWC*C)= 0.00 X 0.163 = 0.00 gal.
3Csg. Volume = 3x 0.00 = 0.00 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								11:30
pH (s.u.)								6.12
O.R.P. (mV)								150
Temperature (°C)								19.50
Specific Cond. (mS/cm)								0.524
Dissolved Oxygen (mg/L)								7.25
Turbidity (NTU)								0.0

Remarks Sampled from spigot inside well house. Purged approximately 10 minutes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/21/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **WSW-11**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) 0.00 ft.

1Csg. Vol. (LWC*C)= 0.00 X 0.163 = 0.00 gal.
3Csg. Volume = 3x 0.00 = 0.00 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								11:15
pH (s.u.)								6.11
O.R.P. (mV)								141
Temperature (°C)								19.40
Specific Cond. (mS/cm)								0.548
Dissolved Oxygen (mg/L)								3.88
Turbidity (NTU)								0.0

Remarks Sampled from spigot on side of well house. Purged approximately 10 minutes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/21/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
--	--	--	--

Well # **WSW-12**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) 0.00 ft.

1Csg. Vol. (LWC*C)= 0.00 X 0.163 = 0.00 gal.
3Csg. Volume = 3x 0.00 = 0.00 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
O.R.P. (mV)								
Temperature (°C)								
Specific Cond. (mS/cm)								
Dissolved Oxygen (mg/L)								
Turbidity (NTU)								

Remarks Not sampled. Well pump is inoperable and in place, house is vacant.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/21/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **WSW-13**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) 0.00 ft.

1Csg. Vol. (LWC*C)= 0.00 X 0.163 = 0.00 gal.
3Csg. Volume = 3x 0.00 = 0.00 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								11:05
pH (s.u.)								5.93
O.R.P. (mV)								157
Temperature (°C)								19.15
Specific Cond. (mS/cm)								0.614
Dissolved Oxygen (mg/L)								3.44
Turbidity (NTU)								0.0

Remarks Sampled from spigot on back side of house, spigot on well house is broken. Purged approximately 10 mins.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/21/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter Horiba U22 Conductivity Meter Horiba U22
serial no. T908009 serial no. T908009
pH = 4.0 Standard
pH = 7.0 Standard
pH = 10.0 Standard

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **WSW-14**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) 0.00 ft.

1Csg. Vol. (LWC*C)= 0.00 X 0.163 = 0.00 gal.
3Csg. Volume = 3x 0.00 = 0.00 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								10:45
pH (s.u.)								6.21
O.R.P. (mV)								138
Temperature (°C)								19.54
Specific Cond. (mS/cm)								0.372
Dissolved Oxygen (mg/L)								2.86
Turbidity (NTU)								0.0

Remarks Sampled from spigot inside well house. Purged approximately 5 minutes.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date(mm/dd/yy) 04/21/11
Field Personnel A. Williamson
General Weather Conditions Sunny
Ambient Air Temperature 80 F

Facility Name 378 Truck Stop Site ID# 07960

Quality Assurance:

pH Meter	Horiba U22	Conductivity Meter	Horiba U22
serial no.	T908009	serial no.	T908009
pH = 4.0		Standard	
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
A. Williamson	4/21/11 16:30	Pace	4/22/11 12:45

Well # **WSW-15**

Well Diameter (D) -- inch ____ or feet
conversion factor(C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) -- ft.
Depth to GW(DGW) -- ft.

Length of Water Column (LWC=TWD-DGW) 0.00 ft.

1Csg. Vol. (LWC*C)= 0.00 X 0.163 = 0.00 gal.
3Csg. Volume = 3x 0.00 = 0.00 gals.(Std. Purge Vol)

Total Vol. of Water Purged Before Sampling -- gal.

	Initial	1st vol.	2nd vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								0.00
Time (military)								10:35
pH (s.u.)								6.16
O.R.P. (mV)								123
Temperature (°C)								19.53
Specific Cond. (mS/cm)								1.57
Dissolved Oxygen (mg/L)								3.03
Turbidity (NTU)								0.0

Remarks Sampled from spigot on side of well house. Purged approximately 10 minutes.
Was informed by resident this well is 360 feet deep.

APPENDIX C

Laboratory Analytical Reports-Groundwater Samples-April and May 2011

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

May 06, 2011

Ms. Christine Dupuis
Environmental Compliance Servi
13504 South Point Blvd
Charlotte, NC 28273

RE: Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Dear Ms. Dupuis:

Enclosed are the analytical results for sample(s) received by the laboratory on April 22, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project:	378 Truck Stop 14-214210
Pace Project No.:	9292623

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

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SAMPLE SUMMARY

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9292623001	**MW-1**	Water	04/19/11 14:30	04/22/11 14:00
9292623002	**MW-2**	Water	04/20/11 12:10	04/22/11 14:00
9292623003	**MW-3**	Water	04/19/11 13:05	04/22/11 14:00
9292623004	**MW-4**	Water	04/20/11 16:05	04/22/11 14:00
9292623005	**MW-5**	Water	04/20/11 15:35	04/22/11 14:00
9292623006	**MW-6**	Water	04/20/11 15:45	04/22/11 14:00
9292623007	**MW-7**	Water	04/20/11 16:20	04/22/11 14:00
9292623008	**MW-8**	Water	04/20/11 15:55	04/22/11 14:00
9292623009	**MW-9**	Water	04/19/11 15:30	04/22/11 14:00
9292623010	**MW-10**	Water	04/19/11 16:25	04/22/11 14:00
9292623011	**MW-11**	Water	04/20/11 13:40	04/22/11 14:00
9292623012	**MW-12**	Water	04/20/11 13:15	04/22/11 14:00
9292623013	**MW-13**	Water	04/20/11 15:00	04/22/11 14:00
9292623014	**MW-14**	Water	04/20/11 13:50	04/22/11 14:00
9292623015	**MW-15**	Water	04/20/11 14:10	04/22/11 14:00
9292623016	**MW-16**	Water	04/19/11 19:10	04/22/11 14:00
9292623017	**MW-17**	Water	04/20/11 11:30	04/22/11 14:00
9292623018	**MW-18**	Water	04/20/11 12:35	04/22/11 14:00
9292623019	**MW-19**	Water	04/20/11 09:55	04/22/11 14:00
9292623020	**MW-20**	Water	04/20/11 15:20	04/22/11 14:00
9292623021	**MW-21**	Water	04/21/11 08:50	04/22/11 14:00
9292623022	**MW-22**	Water	04/20/11 14:00	04/22/11 14:00
9292623023	**MW-23**	Water	04/20/11 10:40	04/22/11 14:00
9292623024	**MW-24**	Water	04/19/11 17:55	04/22/11 14:00
9292623025	**MW-25**	Water	04/20/11 08:55	04/22/11 14:00
9292623026	**MW-26**	Water	04/19/11 18:20	04/22/11 14:00
9292623027	**MW-27**	Water	04/20/11 16:30	04/22/11 14:00
9292623028	**MW-28**	Water	04/21/11 09:15	04/22/11 14:00
9292623029	**TW-1**	Water	04/19/11 14:00	04/22/11 14:00
9292623030	**TW-2**	Water	04/19/11 13:10	04/22/11 14:00
9292623031	**TW-3**	Water	04/19/11 15:40	04/22/11 14:00
9292623032	**TW-4**	Water	04/19/11 16:35	04/22/11 14:00
9292623033	**TW-5**	Water	04/20/11 13:20	04/22/11 14:00
9292623034	**TW-6**	Water	04/19/11 19:15	04/22/11 14:00
9292623035	**TW-7**	Water	04/20/11 11:40	04/22/11 14:00
9292623036	**TW-8**	Water	04/20/11 10:05	04/22/11 14:00
9292623037	**TW-9**	Water	04/19/11 17:45	04/22/11 14:00

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SAMPLE SUMMARY

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9292623038	**WSW-1 Pre**	Water	04/20/11 14:30	04/22/11 14:00
9292623039	**WSW-1 Post**	Water	04/20/11 14:20	04/22/11 14:00
9292623040	**WSW-2**	Water	04/20/11 09:00	04/22/11 14:00
9292623041	**WSW-4**	Water	04/21/11 09:35	04/22/11 14:00
9292623042	**WSW-6**	Water	04/21/11 10:00	04/22/11 14:00
9292623043	**WSW-7**	Water	04/21/11 10:10	04/22/11 14:00
9292623044	**WSW-8 Pre**	Water	04/21/11 11:45	04/22/11 14:00
9292623045	**WSW-9**	Water	04/21/11 10:25	04/22/11 14:00
9292623046	**WSW-10**	Water	04/21/11 11:30	04/22/11 14:00
9292623047	**WSW-11**	Water	04/21/11 11:15	04/22/11 14:00
9292623048	**WSW-13**	Water	04/21/11 11:05	04/22/11 14:00
9292623049	**WSW-14**	Water	04/21/11 10:45	04/22/11 14:00
9292623050	**WSW-15**	Water	04/21/11 10:35	04/22/11 14:00
9292623051	**WSW-8 Post**	Water	04/21/11 11:55	04/22/11 14:00

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SAMPLE ANALYTE COUNT

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9292623001	**MW-1**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623002	**MW-2**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623003	**MW-3**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623004	**MW-4**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623005	**MW-5**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623006	**MW-6**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623007	**MW-7**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623008	**MW-8**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623009	**MW-9**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623010	**MW-10**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623011	**MW-11**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623012	**MW-12**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623013	**MW-13**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623014	**MW-14**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623015	**MW-15**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623016	**MW-16**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623017	**MW-17**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623018	**MW-18**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623019	**MW-19**	EPA 8011	CAH	2	PASI-C

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SAMPLE ANALYTE COUNT

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	KJM	20	PASI-C
9292623020	**MW-20**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623021	**MW-21**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623022	**MW-22**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623023	**MW-23**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623024	**MW-24**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623025	**MW-25**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623026	**MW-26**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623027	**MW-27**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623028	**MW-28**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623029	**TW-1**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623030	**TW-2**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623031	**TW-3**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623032	**TW-4**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623033	**TW-5**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623034	**TW-6**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623035	**TW-7**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623036	**TW-8**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623037	**TW-9**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C

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SAMPLE ANALYTE COUNT

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9292623038	**WSW-1 Pre**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623039	**WSW-1 Post**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623040	**WSW-2**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623041	**WSW-4**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623042	**WSW-6**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623043	**WSW-7**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623044	**WSW-8 Pre**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623045	**WSW-9**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623046	**WSW-10**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623047	**WSW-11**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623048	**WSW-13**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623049	**WSW-14**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623050	**WSW-15**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C
9292623051	**WSW-8 Post**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210

Pace Project No.: 9292623

Sample: MW-1 **Lab ID: 9292623001** Collected: 04/19/11 14:30 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**1.2**	ug/L	0.039	0.039	2	04/29/11 16:59	04/30/11 11:59	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		2	04/29/11 16:59	04/30/11 11:59	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	1000	768	10		05/02/11 18:33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	34.0	10		05/02/11 18:33	994-05-8	
Benzene	**456**	ug/L	50.0	17.0	10		05/02/11 18:33	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	321	10		05/02/11 18:33	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	577	10		05/02/11 18:33	75-65-0	
tert-Butyl Formate	ND	ug/L	500	73.0	10		05/02/11 18:33	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	18.0	10		05/02/11 18:33	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	17.0	10		05/02/11 18:33	108-20-3	
Ethanol	ND	ug/L	2000	1380	10		05/02/11 18:33	64-17-5	
Ethylbenzene	**1010**	ug/L	50.0	16.0	10		05/02/11 18:33	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	36.0	10		05/02/11 18:33	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	17.0	10		05/02/11 18:33	1634-04-4	
Naphthalene	**277**	ug/L	50.0	20.0	10		05/02/11 18:33	91-20-3	
Toluene	**210**	ug/L	50.0	16.0	10		05/02/11 18:33	108-88-3	
m&p-Xylene	**3540**	ug/L	100	31.0	10		05/02/11 18:33	179601-23-1	
o-Xylene	**1160**	ug/L	50.0	16.0	10		05/02/11 18:33	95-47-6	
Dibromofluoromethane (S)	105	%	70-130		10		05/02/11 18:33	1868-53-7	
Toluene-d8 (S)	97	%	70-130		10		05/02/11 18:33	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		10		05/02/11 18:33	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		10		05/02/11 18:33	17060-07-0	

Sample: MW-2 **Lab ID: 9292623002** Collected: 04/20/11 12:10 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:01	04/30/11 00:01	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	04/29/11 17:01	04/30/11 00:01	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**96.2J**	ug/L	100	76.8	1		05/03/11 01:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/03/11 01:14	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/03/11 01:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/03/11 01:14	624-95-3	
tert-Butyl Alcohol	**336**	ug/L	100	57.7	1		05/03/11 01:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/03/11 01:14	762-75-4	
1,2-Dichloroethane	**28.5**	ug/L	5.0	1.8	1		05/03/11 01:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/03/11 01:14	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/03/11 01:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/03/11 01:14	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: MW-2 **Lab ID: 9292623002** Collected: 04/20/11 12:10 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/03/11 01:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/03/11 01:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/03/11 01:14	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/03/11 01:14	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/03/11 01:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/03/11 01:14	95-47-6	
Dibromofluoromethane (S)	108	%	70-130		1		05/03/11 01:14	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		05/03/11 01:14	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		1		05/03/11 01:14	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		05/03/11 01:14	17060-07-0	

Sample: MW-3 **Lab ID: 9292623003** Collected: 04/19/11 13:05 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.30**	ug/L	0.020	0.020	1	04/29/11 16:59	04/29/11 19:27	106-93-4	
1-Chloro-2-bromopropane (S)	148	%	60-140		1	04/29/11 16:59	04/29/11 19:27	301-79-56	S5
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**13800**	ug/L	5000	3840	50		05/02/11 18:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	170	50		05/02/11 18:51	994-05-8	
Benzene	**7300**	ug/L	250	85.0	50		05/02/11 18:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	1600	50		05/02/11 18:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	2880	50		05/02/11 18:51	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	365	50		05/02/11 18:51	762-75-4	
1,2-Dichloroethane	**542**	ug/L	250	90.0	50		05/02/11 18:51	107-06-2	
Diisopropyl ether	ND	ug/L	250	85.0	50		05/02/11 18:51	108-20-3	
Ethanol	ND	ug/L	10000	6890	50		05/02/11 18:51	64-17-5	
Ethylbenzene	**921**	ug/L	250	80.0	50		05/02/11 18:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	180	50		05/02/11 18:51	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	250	85.0	50		05/02/11 18:51	1634-04-4	
Naphthalene	**342**	ug/L	250	100	50		05/02/11 18:51	91-20-3	
Toluene	**253**	ug/L	250	80.0	50		05/02/11 18:51	108-88-3	
m&p-Xylene	**3650**	ug/L	500	155	50		05/02/11 18:51	179601-23-1	
o-Xylene	**1410**	ug/L	250	80.0	50		05/02/11 18:51	95-47-6	
Dibromofluoromethane (S)	109	%	70-130		50		05/02/11 18:51	1868-53-7	
Toluene-d8 (S)	98	%	70-130		50		05/02/11 18:51	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		50		05/02/11 18:51	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		50		05/02/11 18:51	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: MW-4 **Lab ID: 9292623004** Collected: 04/20/11 16:05 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:01	04/30/11 00:19	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	04/29/11 17:01	04/30/11 00:19	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/03/11 01:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/03/11 01:32	994-05-8	
Benzene	**16.4**	ug/L	5.0	1.7	1		05/03/11 01:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/03/11 01:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/03/11 01:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/03/11 01:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/03/11 01:32	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/03/11 01:32	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/03/11 01:32	64-17-5	
Ethylbenzene	**6.0**	ug/L	5.0	1.6	1		05/03/11 01:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/03/11 01:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/03/11 01:32	1634-04-4	
Naphthalene	**9.3**	ug/L	5.0	2.0	1		05/03/11 01:32	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/03/11 01:32	108-88-3	
m&p-Xylene	**14.0**	ug/L	10.0	3.1	1		05/03/11 01:32	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/03/11 01:32	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		05/03/11 01:32	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		05/03/11 01:32	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		1		05/03/11 01:32	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/03/11 01:32	17060-07-0	

Sample: MW-5 **Lab ID: 9292623005** Collected: 04/20/11 15:35 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:01	04/30/11 00:38	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	04/29/11 17:01	04/30/11 00:38	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/03/11 01:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/03/11 01:50	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/03/11 01:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/03/11 01:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/03/11 01:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/03/11 01:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/03/11 01:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/03/11 01:50	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/03/11 01:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/03/11 01:50	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: MW-5 **Lab ID: 9292623005** Collected: 04/20/11 15:35 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/03/11 01:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/03/11 01:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/03/11 01:50	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/03/11 01:50	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/03/11 01:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/03/11 01:50	95-47-6	
Dibromofluoromethane (S)	106	%	70-130		1		05/03/11 01:50	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		05/03/11 01:50	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		05/03/11 01:50	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		05/03/11 01:50	17060-07-0	

Sample: MW-6 **Lab ID: 9292623006** Collected: 04/20/11 15:45 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:01	04/30/11 00:56	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	04/29/11 17:01	04/30/11 00:56	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 13:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 13:55	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 13:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 13:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 13:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 13:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 13:55	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 13:55	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 13:55	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 13:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 13:55	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 13:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 13:55	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 13:55	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 13:55	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 13:55	95-47-6	
Dibromofluoromethane (S)	105	%	70-130		1		04/30/11 13:55	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/30/11 13:55	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		04/30/11 13:55	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		04/30/11 13:55	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: MW-7 **Lab ID: 9292623007** Collected: 04/20/11 16:20 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**6.9**	ug/L	0.20	0.20	10	04/29/11 17:01	04/30/11 12:17	106-93-4	
1-Chloro-2-bromopropane (S)	0	%	60-140		10	04/29/11 17:01	04/30/11 12:17	301-79-56	S4
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**2650**	ug/L	100	76.8	1		04/30/11 14:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 14:13	994-05-8	
Benzene	**794**	ug/L	50.0	17.0	10		05/02/11 15:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 14:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 14:13	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 14:13	762-75-4	
1,2-Dichloroethane	**66.6**	ug/L	5.0	1.8	1		04/30/11 14:13	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 14:13	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 14:13	64-17-5	
Ethylbenzene	**410**	ug/L	50.0	16.0	10		05/02/11 15:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 14:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 14:13	1634-04-4	
Naphthalene	**116**	ug/L	5.0	2.0	1		04/30/11 14:13	91-20-3	
Toluene	**108**	ug/L	5.0	1.6	1		04/30/11 14:13	108-88-3	
m&p-Xylene	**1780**	ug/L	100	31.0	10		05/02/11 15:12	179601-23-1	
o-Xylene	**756**	ug/L	50.0	16.0	10		05/02/11 15:12	95-47-6	
Dibromofluoromethane (S)	94	%	70-130		1		04/30/11 14:13	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/30/11 14:13	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		04/30/11 14:13	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		04/30/11 14:13	17060-07-0	

Sample: MW-8 **Lab ID: 9292623008** Collected: 04/20/11 15:55 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:01	04/30/11 01:33	106-93-4	
1-Chloro-2-bromopropane (S)	97	%	60-140		1	04/29/11 17:01	04/30/11 01:33	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**244**	ug/L	100	76.8	1		04/30/11 14:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 14:32	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 14:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 14:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 14:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 14:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 14:32	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 14:32	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 14:32	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 14:32	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: MW-8 **Lab ID: 9292623008** Collected: 04/20/11 15:55 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 14:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 14:32	1634-04-4	
Naphthalene	**2.2J**	ug/L	5.0	2.0	1		04/30/11 14:32	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 14:32	108-88-3	
m&p-Xylene	**4.0J**	ug/L	10.0	3.1	1		04/30/11 14:32	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 14:32	95-47-6	
Dibromofluoromethane (S)	110	%	70-130		1		04/30/11 14:32	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/30/11 14:32	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		04/30/11 14:32	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		04/30/11 14:32	17060-07-0	

Sample: MW-9 **Lab ID: 9292623009** Collected: 04/19/11 15:30 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 16:59	04/29/11 19:45	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	04/29/11 16:59	04/29/11 19:45	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/02/11 21:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/02/11 21:54	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/11 21:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/02/11 21:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/02/11 21:54	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/02/11 21:54	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/02/11 21:54	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/02/11 21:54	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/02/11 21:54	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/02/11 21:54	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/02/11 21:54	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/02/11 21:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/02/11 21:54	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/02/11 21:54	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/02/11 21:54	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/02/11 21:54	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		1		05/02/11 21:54	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		05/02/11 21:54	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		05/02/11 21:54	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/02/11 21:54	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: MW-10 **Lab ID: 9292623010** Collected: 04/19/11 16:25 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:00	04/29/11 20:40	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	04/29/11 17:00	04/29/11 20:40	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/02/11 22:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/02/11 22:12	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/11 22:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/02/11 22:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/02/11 22:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/02/11 22:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/02/11 22:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/02/11 22:12	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/02/11 22:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/02/11 22:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/02/11 22:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/02/11 22:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/02/11 22:12	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/02/11 22:12	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/02/11 22:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/02/11 22:12	95-47-6	
Dibromofluoromethane (S)	104	%	70-130		1		05/02/11 22:12	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		05/02/11 22:12	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		05/02/11 22:12	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		05/02/11 22:12	17060-07-0	

Sample: MW-11 **Lab ID: 9292623011** Collected: 04/20/11 13:40 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:09	04/30/11 03:06	106-93-4	
1-Chloro-2-bromopropane (S)	106	%	60-140		1	04/29/11 17:09	04/30/11 03:06	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 14:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 14:50	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 14:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 14:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 14:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 14:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 14:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 14:50	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 14:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 14:50	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: MW-11 **Lab ID: 9292623011** Collected: 04/20/11 13:40 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 14:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 14:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 14:50	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 14:50	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 14:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 14:50	95-47-6	
Dibromofluoromethane (S)	97	%	70-130		1		04/30/11 14:50	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/30/11 14:50	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/30/11 14:50	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		04/30/11 14:50	17060-07-0	

Sample: MW-12 **Lab ID: 9292623012** Collected: 04/20/11 13:15 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**6.0**	ug/L	0.20	0.20	10	04/29/11 17:10	04/30/11 12:36	106-93-4	
1-Chloro-2-bromopropane (S)	0	%	60-140		10	04/29/11 17:10	04/30/11 12:36	301-79-56	S4
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	1000	768	10		04/30/11 15:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	34.0	10		04/30/11 15:09	994-05-8	
Benzene	**1360**	ug/L	50.0	17.0	10		04/30/11 15:09	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	321	10		04/30/11 15:09	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	577	10		04/30/11 15:09	75-65-0	
tert-Butyl Formate	ND	ug/L	500	73.0	10		04/30/11 15:09	762-75-4	
1,2-Dichloroethane	**75.7**	ug/L	50.0	18.0	10		04/30/11 15:09	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	17.0	10		04/30/11 15:09	108-20-3	
Ethanol	ND	ug/L	2000	1380	10		04/30/11 15:09	64-17-5	
Ethylbenzene	**462**	ug/L	50.0	16.0	10		04/30/11 15:09	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	36.0	10		04/30/11 15:09	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	17.0	10		04/30/11 15:09	1634-04-4	
Naphthalene	**91.3**	ug/L	50.0	20.0	10		04/30/11 15:09	91-20-3	
Toluene	**987**	ug/L	50.0	16.0	10		04/30/11 15:09	108-88-3	
m&p-Xylene	**733**	ug/L	100	31.0	10		04/30/11 15:09	179601-23-1	
o-Xylene	**926**	ug/L	50.0	16.0	10		04/30/11 15:09	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		10		04/30/11 15:09	1868-53-7	
Toluene-d8 (S)	102	%	70-130		10		04/30/11 15:09	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		10		04/30/11 15:09	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		10		04/30/11 15:09	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: MW-13 **Lab ID: 9292623013** Collected: 04/20/11 15:00 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.074**	ug/L	0.020	0.020	1	04/29/11 17:10	04/30/11 04:37	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	04/29/11 17:10	04/30/11 04:37	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**1210**	ug/L	250	192	2.5		04/30/11 15:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	25.0	8.5	2.5		04/30/11 15:27	994-05-8	
Benzene	**376**	ug/L	12.5	4.2	2.5		04/30/11 15:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	250	80.2	2.5		04/30/11 15:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	250	144	2.5		04/30/11 15:27	75-65-0	
tert-Butyl Formate	ND	ug/L	125	18.2	2.5		04/30/11 15:27	762-75-4	
1,2-Dichloroethane	**57.0**	ug/L	12.5	4.5	2.5		04/30/11 15:27	107-06-2	
Diisopropyl ether	ND	ug/L	12.5	4.2	2.5		04/30/11 15:27	108-20-3	
Ethanol	ND	ug/L	500	344	2.5		04/30/11 15:27	64-17-5	
Ethylbenzene	**31.2**	ug/L	12.5	4.0	2.5		04/30/11 15:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	25.0	9.0	2.5		04/30/11 15:27	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	12.5	4.2	2.5		04/30/11 15:27	1634-04-4	
Naphthalene	**11.7J**	ug/L	12.5	5.0	2.5		04/30/11 15:27	91-20-3	
Toluene	**46.8**	ug/L	12.5	4.0	2.5		04/30/11 15:27	108-88-3	
m&p-Xylene	**195**	ug/L	25.0	7.8	2.5		04/30/11 15:27	179601-23-1	
o-Xylene	**199**	ug/L	12.5	4.0	2.5		04/30/11 15:27	95-47-6	
Dibromofluoromethane (S)	98	%	70-130		2.5		04/30/11 15:27	1868-53-7	
Toluene-d8 (S)	101	%	70-130		2.5		04/30/11 15:27	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		2.5		04/30/11 15:27	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		2.5		04/30/11 15:27	17060-07-0	

Sample: MW-14 **Lab ID: 9292623014** Collected: 04/20/11 13:50 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:10	04/30/11 04:56	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	04/29/11 17:10	04/30/11 04:56	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 15:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 15:45	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 15:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 15:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 15:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 15:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 15:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 15:45	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 15:45	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 15:45	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: MW-14 **Lab ID: 9292623014** Collected: 04/20/11 13:50 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 15:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 15:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 15:45	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 15:45	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 15:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 15:45	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		04/30/11 15:45	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/30/11 15:45	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		04/30/11 15:45	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		04/30/11 15:45	17060-07-0	

Sample: MW-15 **Lab ID: 9292623015** Collected: 04/20/11 14:10 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:10	04/30/11 05:14	106-93-4	
1-Chloro-2-bromopropane (S)	100	%	60-140		1	04/29/11 17:10	04/30/11 05:14	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 16:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 16:03	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 16:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 16:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 16:03	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 16:03	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 16:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 16:03	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 16:03	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 16:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 16:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 16:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 16:03	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 16:03	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 16:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 16:03	95-47-6	
Dibromofluoromethane (S)	106	%	70-130		1		04/30/11 16:03	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/30/11 16:03	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		1		04/30/11 16:03	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		04/30/11 16:03	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: MW-16 **Lab ID: 9292623016** Collected: 04/19/11 19:10 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:00	04/29/11 21:17	106-93-4	
1-Chloro-2-bromopropane (S)	111	%	60-140		1	04/29/11 17:00	04/29/11 21:17	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**321**	ug/L	100	76.8	1		05/03/11 12:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/03/11 12:44	994-05-8	
Benzene	**158**	ug/L	5.0	1.7	1		05/03/11 12:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/03/11 12:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/03/11 12:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/03/11 12:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/03/11 12:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/03/11 12:44	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/03/11 12:44	64-17-5	
Ethylbenzene	**2.5J**	ug/L	5.0	1.6	1		05/03/11 12:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/03/11 12:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/03/11 12:44	1634-04-4	
Naphthalene	**5.8**	ug/L	5.0	2.0	1		05/03/11 12:44	91-20-3	
Toluene	**8.5**	ug/L	5.0	1.6	1		05/03/11 12:44	108-88-3	
m&p-Xylene	**51.1**	ug/L	10.0	3.1	1		05/03/11 12:44	179601-23-1	
o-Xylene	**45.1**	ug/L	5.0	1.6	1		05/03/11 12:44	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		05/03/11 12:44	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		05/03/11 12:44	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		1		05/03/11 12:44	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/03/11 12:44	17060-07-0	

Sample: MW-17 **Lab ID: 9292623017** Collected: 04/20/11 11:30 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:10	04/30/11 05:33	106-93-4	
1-Chloro-2-bromopropane (S)	104	%	60-140		1	04/29/11 17:10	04/30/11 05:33	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 16:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 16:22	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 16:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 16:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 16:22	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 16:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 16:22	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 16:22	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 16:22	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 16:22	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: MW-17 **Lab ID: 9292623017** Collected: 04/20/11 11:30 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 16:22	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 16:22	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 16:22	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 16:22	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 16:22	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 16:22	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		04/30/11 16:22	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/30/11 16:22	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		04/30/11 16:22	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		04/30/11 16:22	17060-07-0	

Sample: MW-18 **Lab ID: 9292623018** Collected: 04/20/11 12:35 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	04/29/11 17:10	04/30/11 05:51	106-93-4	
1-Chloro-2-bromopropane (S)	97	%	60-140		1	04/29/11 17:10	04/30/11 05:51	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 16:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 16:40	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 16:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 16:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 16:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 16:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 16:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 16:40	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 16:40	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 16:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 16:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 16:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 16:40	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 16:40	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 16:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 16:40	95-47-6	
Dibromofluoromethane (S)	100	%	70-130		1		04/30/11 16:40	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/30/11 16:40	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		04/30/11 16:40	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		04/30/11 16:40	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: MW-19 | **Lab ID: 9292623019** | Collected: 04/20/11 09:55 | Received: 04/22/11 14:00 | Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:10	04/30/11 06:09	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	04/29/11 17:10	04/30/11 06:09	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 16:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 16:58	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 16:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 16:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 16:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 16:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 16:58	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 16:58	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 16:58	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 16:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 16:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 16:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 16:58	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 16:58	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 16:58	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 16:58	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		04/30/11 16:58	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/30/11 16:58	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1		04/30/11 16:58	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		04/30/11 16:58	17060-07-0	

Sample: MW-20 | **Lab ID: 9292623020** | Collected: 04/20/11 15:20 | Received: 04/22/11 14:00 | Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:10	04/30/11 06:27	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	04/29/11 17:10	04/30/11 06:27	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 17:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 17:16	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 17:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 17:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 17:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 17:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 17:16	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 17:16	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 17:16	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 17:16	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: MW-20 **Lab ID: 9292623020** Collected: 04/20/11 15:20 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 17:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 17:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 17:16	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 17:16	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 17:16	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 17:16	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		04/30/11 17:16	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/30/11 17:16	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/30/11 17:16	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		04/30/11 17:16	17060-07-0	

Sample: MW-21 **Lab ID: 9292623021** Collected: 04/21/11 08:50 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:10	04/30/11 06:46	106-93-4	
1-Chloro-2-bromopropane (S)	96	%	60-140		1	04/29/11 17:10	04/30/11 06:46	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 17:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 17:35	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 17:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 17:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 17:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 17:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 17:35	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 17:35	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 17:35	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 17:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 17:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 17:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 17:35	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 17:35	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 17:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 17:35	95-47-6	
Dibromofluoromethane (S)	104	%	70-130		1		04/30/11 17:35	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/30/11 17:35	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		1		04/30/11 17:35	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		04/30/11 17:35	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210

Pace Project No.: 9292623

Sample: MW-22 **Lab ID: 9292623022** Collected: 04/20/11 14:00 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**119**	ug/L	3.9	3.9	200	04/29/11 17:10	04/30/11 13:12	106-93-4	
1-Chloro-2-bromopropane (S)	0	%	60-140		200	04/29/11 17:10	04/30/11 13:12	301-79-56	S4
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	25000	19200	250		04/30/11 17:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2500	850	250		04/30/11 17:53	994-05-8	
Benzene	**8690**	ug/L	1250	425	250		04/30/11 17:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	25000	8020	250		04/30/11 17:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	25000	14400	250		04/30/11 17:53	75-65-0	
tert-Butyl Formate	ND	ug/L	12500	1820	250		04/30/11 17:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	1250	450	250		04/30/11 17:53	107-06-2	
Diisopropyl ether	ND	ug/L	1250	425	250		04/30/11 17:53	108-20-3	
Ethanol	ND	ug/L	50000	34400	250		04/30/11 17:53	64-17-5	
Ethylbenzene	**1870**	ug/L	1250	400	250		04/30/11 17:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2500	900	250		04/30/11 17:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1250	425	250		04/30/11 17:53	1634-04-4	
Naphthalene	ND	ug/L	1250	500	250		04/30/11 17:53	91-20-3	
Toluene	**20600**	ug/L	1250	400	250		04/30/11 17:53	108-88-3	
m&p-Xylene	**7480**	ug/L	2500	775	250		04/30/11 17:53	179601-23-1	
o-Xylene	**3590**	ug/L	1250	400	250		04/30/11 17:53	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		250		04/30/11 17:53	1868-53-7	
Toluene-d8 (S)	96	%	70-130		250		04/30/11 17:53	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		250		04/30/11 17:53	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		250		04/30/11 17:53	17060-07-0	

Sample: MW-23 **Lab ID: 9292623023** Collected: 04/20/11 10:40 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:11	04/30/11 07:22	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	04/29/11 17:11	04/30/11 07:22	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 18:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 18:11	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 18:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 18:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 18:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 18:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 18:11	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 18:11	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 18:11	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 18:11	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210

Pace Project No.: 9292623

Sample: MW-23 **Lab ID: 9292623023** Collected: 04/20/11 10:40 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 18:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 18:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 18:11	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 18:11	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 18:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 18:11	95-47-6	
Dibromofluoromethane (S)	99	%	70-130		1		04/30/11 18:11	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/30/11 18:11	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		04/30/11 18:11	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		04/30/11 18:11	17060-07-0	

Sample: MW-24 **Lab ID: 9292623024** Collected: 04/19/11 17:55 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:00	04/29/11 21:35	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	04/29/11 17:00	04/29/11 21:35	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/02/11 22:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/02/11 22:48	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/11 22:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/02/11 22:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/02/11 22:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/02/11 22:48	762-75-4	
1,2-Dichloroethane	**4.1J**	ug/L	5.0	1.8	1		05/02/11 22:48	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/02/11 22:48	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/02/11 22:48	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/02/11 22:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/02/11 22:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/02/11 22:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/02/11 22:48	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/02/11 22:48	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/02/11 22:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/02/11 22:48	95-47-6	
Dibromofluoromethane (S)	106	%	70-130		1		05/02/11 22:48	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/02/11 22:48	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		05/02/11 22:48	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/02/11 22:48	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: MW-25 **Lab ID: 9292623025** Collected: 04/20/11 08:55 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:11	04/30/11 07:41	106-93-4	
1-Chloro-2-bromopropane (S)	94	%	60-140		1	04/29/11 17:11	04/30/11 07:41	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 18:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 18:30	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 18:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 18:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 18:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 18:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 18:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 18:30	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 18:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 18:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 18:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 18:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 18:30	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 18:30	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 18:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 18:30	95-47-6	
Dibromofluoromethane (S)	104	%	70-130		1		04/30/11 18:30	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/30/11 18:30	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		04/30/11 18:30	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		04/30/11 18:30	17060-07-0	

Sample: MW-26 **Lab ID: 9292623026** Collected: 04/19/11 18:20 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:00	04/29/11 21:53	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	04/29/11 17:00	04/29/11 21:53	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/02/11 23:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/02/11 23:06	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/11 23:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/02/11 23:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/02/11 23:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/02/11 23:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/02/11 23:06	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/02/11 23:06	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/02/11 23:06	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/02/11 23:06	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: MW-26 | **Lab ID: 9292623026** | Collected: 04/19/11 18:20 | Received: 04/22/11 14:00 | Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/02/11 23:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/02/11 23:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/02/11 23:06	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/02/11 23:06	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/02/11 23:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/02/11 23:06	95-47-6	
Dibromofluoromethane (S)	101	%	70-130		1		05/02/11 23:06	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		05/02/11 23:06	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		05/02/11 23:06	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		05/02/11 23:06	17060-07-0	

Sample: MW-27 | **Lab ID: 9292623027** | Collected: 04/20/11 16:30 | Received: 04/22/11 14:00 | Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:11	04/30/11 07:59	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	04/29/11 17:11	04/30/11 07:59	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 18:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 18:48	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 18:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 18:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 18:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 18:48	762-75-4	
1,2-Dichloroethane	**2.6J**	ug/L	5.0	1.8	1		04/30/11 18:48	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 18:48	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 18:48	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 18:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 18:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 18:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 18:48	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 18:48	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 18:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 18:48	95-47-6	
Dibromofluoromethane (S)	99	%	70-130		1		04/30/11 18:48	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/30/11 18:48	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		04/30/11 18:48	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		04/30/11 18:48	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210

Pace Project No.: 9292623

Sample: MW-28 **Lab ID: 9292623028** Collected: 04/21/11 09:15 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	04/29/11 17:11	04/30/11 08:17	106-93-4	
1-Chloro-2-bromopropane (S)	92	%	60-140		1	04/29/11 17:11	04/30/11 08:17	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 19:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 19:06	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 19:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 19:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 19:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 19:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 19:06	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 19:06	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 19:06	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 19:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 19:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 19:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 19:06	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 19:06	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 19:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 19:06	95-47-6	
Dibromofluoromethane (S)	105	%	70-130		1		04/30/11 19:06	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/30/11 19:06	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		1		04/30/11 19:06	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		04/30/11 19:06	17060-07-0	

Sample: TW-1 **Lab ID: 9292623029** Collected: 04/19/11 14:00 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:00	04/29/11 22:11	106-93-4	
1-Chloro-2-bromopropane (S)	105	%	60-140		1	04/29/11 17:00	04/29/11 22:11	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**1000**	ug/L	100	76.8	1		05/02/11 23:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/02/11 23:24	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/11 23:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/02/11 23:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/02/11 23:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/02/11 23:24	762-75-4	
1,2-Dichloroethane	**48.9**	ug/L	5.0	1.8	1		05/02/11 23:24	107-06-2	
Diisopropyl ether	**1.8J**	ug/L	5.0	1.7	1		05/02/11 23:24	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/02/11 23:24	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/02/11 23:24	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: TW-1 **Lab ID: 9292623029** Collected: 04/19/11 14:00 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/02/11 23:24	637-92-3	
Methyl-tert-butyl ether	**5.0**	ug/L	5.0	1.7	1		05/02/11 23:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/02/11 23:24	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/02/11 23:24	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/02/11 23:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/02/11 23:24	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		05/02/11 23:24	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/02/11 23:24	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1		05/02/11 23:24	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		05/02/11 23:24	17060-07-0	

Sample: TW-2 **Lab ID: 9292623030** Collected: 04/19/11 13:10 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:00	04/29/11 22:30	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	04/29/11 17:00	04/29/11 22:30	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/02/11 23:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/02/11 23:43	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/11 23:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/02/11 23:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/02/11 23:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/02/11 23:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/02/11 23:43	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/02/11 23:43	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/02/11 23:43	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/02/11 23:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/02/11 23:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/02/11 23:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/02/11 23:43	91-20-3	
Toluene	**1.6J**	ug/L	5.0	1.6	1		05/02/11 23:43	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/02/11 23:43	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/02/11 23:43	95-47-6	
Dibromofluoromethane (S)	106	%	70-130		1		05/02/11 23:43	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/02/11 23:43	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		05/02/11 23:43	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/02/11 23:43	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: TW-3 **Lab ID: 9292623031** Collected: 04/19/11 15:40 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:00	04/29/11 22:48	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	04/29/11 17:00	04/29/11 22:48	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/03/11 00:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/03/11 00:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/03/11 00:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/03/11 00:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/03/11 00:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/03/11 00:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/03/11 00:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/03/11 00:01	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/03/11 00:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/03/11 00:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/03/11 00:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/03/11 00:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/03/11 00:01	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/03/11 00:01	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/03/11 00:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/03/11 00:01	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		05/03/11 00:01	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		05/03/11 00:01	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		05/03/11 00:01	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		05/03/11 00:01	17060-07-0	

Sample: TW-4 **Lab ID: 9292623032** Collected: 04/19/11 16:35 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:00	04/29/11 23:06	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	04/29/11 17:00	04/29/11 23:06	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/03/11 00:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/03/11 00:19	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/03/11 00:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/03/11 00:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/03/11 00:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/03/11 00:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/03/11 00:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/03/11 00:19	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/03/11 00:19	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/03/11 00:19	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: TW-4 **Lab ID: 9292623032** Collected: 04/19/11 16:35 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/03/11 00:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/03/11 00:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/03/11 00:19	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/03/11 00:19	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/03/11 00:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/03/11 00:19	95-47-6	
Dibromofluoromethane (S)	106	%	70-130		1		05/03/11 00:19	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		05/03/11 00:19	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		05/03/11 00:19	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/03/11 00:19	17060-07-0	

Sample: TW-5 **Lab ID: 9292623033** Collected: 04/20/11 13:20 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:11	04/30/11 08:36	106-93-4	
1-Chloro-2-bromopropane (S)	96	%	60-140		1	04/29/11 17:11	04/30/11 08:36	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 19:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 19:24	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 19:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 19:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 19:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 19:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 19:24	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 19:24	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 19:24	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 19:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 19:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 19:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 19:24	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 19:24	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 19:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 19:24	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		04/30/11 19:24	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		04/30/11 19:24	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		1		04/30/11 19:24	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		04/30/11 19:24	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: TW-6 **Lab ID: 9292623034** Collected: 04/19/11 19:15 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:01	04/29/11 23:24	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	04/29/11 17:01	04/29/11 23:24	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/03/11 00:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/03/11 00:37	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/03/11 00:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/03/11 00:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/03/11 00:37	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/03/11 00:37	762-75-4	
1,2-Dichloroethane	**3.6J**	ug/L	5.0	1.8	1		05/03/11 00:37	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/03/11 00:37	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/03/11 00:37	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/03/11 00:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/03/11 00:37	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/03/11 00:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/03/11 00:37	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/03/11 00:37	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/03/11 00:37	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/03/11 00:37	95-47-6	
Dibromofluoromethane (S)	104	%	70-130		1		05/03/11 00:37	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		05/03/11 00:37	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		05/03/11 00:37	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/03/11 00:37	17060-07-0	

Sample: TW-7 **Lab ID: 9292623035** Collected: 04/20/11 11:40 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:11	04/30/11 08:54	106-93-4	
1-Chloro-2-bromopropane (S)	97	%	60-140		1	04/29/11 17:11	04/30/11 08:54	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 19:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 19:42	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 19:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 19:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 19:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 19:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 19:42	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 19:42	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 19:42	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 19:42	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: TW-7 **Lab ID: 9292623035** Collected: 04/20/11 11:40 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 19:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 19:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 19:42	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 19:42	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 19:42	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 19:42	95-47-6	
Dibromofluoromethane (S)	92	%	70-130		1		04/30/11 19:42	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/30/11 19:42	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		1		04/30/11 19:42	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		04/30/11 19:42	17060-07-0	

Sample: TW-8 **Lab ID: 9292623036** Collected: 04/20/11 10:05 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:11	04/30/11 09:12	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	04/29/11 17:11	04/30/11 09:12	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 20:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 20:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 20:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 20:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 20:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 20:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 20:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 20:01	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 20:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 20:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 20:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 20:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 20:01	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 20:01	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 20:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 20:01	95-47-6	
Dibromofluoromethane (S)	108	%	70-130		1		04/30/11 20:01	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/30/11 20:01	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		1		04/30/11 20:01	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		04/30/11 20:01	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: TW-9 **Lab ID: 9292623037** Collected: 04/19/11 17:45 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:01	04/29/11 23:42	106-93-4	
1-Chloro-2-bromopropane (S)	100	%	60-140		1	04/29/11 17:01	04/29/11 23:42	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/03/11 00:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/03/11 00:55	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/03/11 00:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/03/11 00:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/03/11 00:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/03/11 00:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/03/11 00:55	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/03/11 00:55	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/03/11 00:55	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/03/11 00:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/03/11 00:55	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/03/11 00:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/03/11 00:55	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/03/11 00:55	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/03/11 00:55	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/03/11 00:55	95-47-6	
Dibromofluoromethane (S)	107	%	70-130		1		05/03/11 00:55	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		05/03/11 00:55	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		1		05/03/11 00:55	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		05/03/11 00:55	17060-07-0	

Sample: WSW-1 Pre **Lab ID: 9292623038** Collected: 04/20/11 14:30 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:11	04/30/11 09:31	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	04/29/11 17:11	04/30/11 09:31	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 20:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 20:19	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 20:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 20:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 20:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 20:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 20:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 20:19	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 20:19	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 20:19	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: WSW-1 Pre **Lab ID: 9292623038** Collected: 04/20/11 14:30 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 20:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 20:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 20:19	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 20:19	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 20:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 20:19	95-47-6	
Dibromofluoromethane (S)	105	%	70-130		1		04/30/11 20:19	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		04/30/11 20:19	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		04/30/11 20:19	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		04/30/11 20:19	17060-07-0	

Sample: WSW-1 Post **Lab ID: 9292623039** Collected: 04/20/11 14:20 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	04/29/11 17:11	04/30/11 09:50	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	04/29/11 17:11	04/30/11 09:50	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 20:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 20:37	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 20:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 20:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 20:37	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 20:37	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 20:37	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 20:37	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 20:37	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 20:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 20:37	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 20:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 20:37	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 20:37	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 20:37	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 20:37	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		04/30/11 20:37	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/30/11 20:37	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1		04/30/11 20:37	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		04/30/11 20:37	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: WSW-2 **Lab ID: 9292623040** Collected: 04/20/11 09:00 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/01/11 16:05	05/01/11 21:13	106-93-4	
1-Chloro-2-bromopropane (S)	96	%	60-140		1	05/01/11 16:05	05/01/11 21:13	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 20:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 20:56	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 20:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 20:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 20:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 20:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 20:56	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 20:56	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 20:56	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 20:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 20:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 20:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 20:56	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 20:56	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 20:56	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 20:56	95-47-6	
Dibromofluoromethane (S)	105	%	70-130		1		04/30/11 20:56	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/30/11 20:56	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		1		04/30/11 20:56	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		04/30/11 20:56	17060-07-0	

Sample: WSW-4 **Lab ID: 9292623041** Collected: 04/21/11 09:35 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/01/11 16:05	05/01/11 22:08	106-93-4	
1-Chloro-2-bromopropane (S)	97	%	60-140		1	05/01/11 16:05	05/01/11 22:08	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 21:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 21:14	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 21:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 21:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 21:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 21:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 21:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 21:14	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 21:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 21:14	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: WSW-4 **Lab ID: 9292623041** Collected: 04/21/11 09:35 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 21:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 21:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 21:14	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 21:14	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 21:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 21:14	95-47-6	
Dibromofluoromethane (S)	104	%	70-130		1		04/30/11 21:14	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/30/11 21:14	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		04/30/11 21:14	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		04/30/11 21:14	17060-07-0	

Sample: WSW-6 **Lab ID: 9292623042** Collected: 04/21/11 10:00 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/01/11 16:05	05/01/11 22:44	106-93-4	
1-Chloro-2-bromopropane (S)	94	%	60-140		1	05/01/11 16:05	05/01/11 22:44	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 21:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 21:32	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 21:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 21:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 21:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 21:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 21:32	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 21:32	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 21:32	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 21:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 21:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 21:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 21:32	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 21:32	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 21:32	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 21:32	95-47-6	
Dibromofluoromethane (S)	103	%	70-130		1		04/30/11 21:32	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/30/11 21:32	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130		1		04/30/11 21:32	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		04/30/11 21:32	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: WSW-7 **Lab ID: 9292623043** Collected: 04/21/11 10:10 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/01/11 16:05	05/01/11 23:03	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	05/01/11 16:05	05/01/11 23:03	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 21:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 21:50	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 21:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 21:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 21:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 21:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		04/30/11 21:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 21:50	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 21:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 21:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 21:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 21:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 21:50	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 21:50	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 21:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 21:50	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		04/30/11 21:50	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/30/11 21:50	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		04/30/11 21:50	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		04/30/11 21:50	17060-07-0	

Sample: WSW-8 Pre **Lab ID: 9292623044** Collected: 04/21/11 11:45 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/01/11 16:05	05/01/11 23:21	106-93-4	
1-Chloro-2-bromopropane (S)	108	%	60-140		1	05/01/11 16:05	05/01/11 23:21	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		04/30/11 22:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		04/30/11 22:08	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/11 22:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		04/30/11 22:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		04/30/11 22:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		04/30/11 22:08	762-75-4	
1,2-Dichloroethane	**2.9J**	ug/L	5.0	1.8	1		04/30/11 22:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		04/30/11 22:08	108-20-3	
Ethanol	ND	ug/L	200	138	1		04/30/11 22:08	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		04/30/11 22:08	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: WSW-8 Pre **Lab ID: 9292623044** Collected: 04/21/11 11:45 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		04/30/11 22:08	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		04/30/11 22:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		04/30/11 22:08	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		04/30/11 22:08	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		04/30/11 22:08	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		04/30/11 22:08	95-47-6	
Dibromofluoromethane (S)	102	%	70-130		1		04/30/11 22:08	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/30/11 22:08	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130		1		04/30/11 22:08	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		04/30/11 22:08	17060-07-0	

Sample: WSW-9 **Lab ID: 9292623045** Collected: 04/21/11 10:25 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/01/11 16:05	05/01/11 23:39	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	05/01/11 16:05	05/01/11 23:39	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/03/11 02:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/03/11 02:08	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/03/11 02:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/03/11 02:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/03/11 02:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/03/11 02:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/03/11 02:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/03/11 02:08	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/03/11 02:08	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/03/11 02:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/03/11 02:08	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/03/11 02:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/03/11 02:08	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/03/11 02:08	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/03/11 02:08	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/03/11 02:08	95-47-6	
Dibromofluoromethane (S)	106	%	70-130		1		05/03/11 02:08	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		05/03/11 02:08	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		05/03/11 02:08	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		05/03/11 02:08	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: WSW-10 **Lab ID: 9292623046** Collected: 04/21/11 11:30 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	05/01/11 16:05	05/01/11 23:57	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	05/01/11 16:05	05/01/11 23:57	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/03/11 02:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/03/11 02:26	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/03/11 02:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/03/11 02:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/03/11 02:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/03/11 02:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/03/11 02:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/03/11 02:26	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/03/11 02:26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/03/11 02:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/03/11 02:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/03/11 02:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/03/11 02:26	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/03/11 02:26	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/03/11 02:26	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/03/11 02:26	95-47-6	
Dibromofluoromethane (S)	106	%	70-130		1		05/03/11 02:26	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		05/03/11 02:26	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		05/03/11 02:26	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		05/03/11 02:26	17060-07-0	

Sample: WSW-11 **Lab ID: 9292623047** Collected: 04/21/11 11:15 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/01/11 16:06	05/02/11 00:15	106-93-4	
1-Chloro-2-bromopropane (S)	105	%	60-140		1	05/01/11 16:06	05/02/11 00:15	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/03/11 02:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/03/11 02:45	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/03/11 02:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/03/11 02:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/03/11 02:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/03/11 02:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/03/11 02:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/03/11 02:45	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/03/11 02:45	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/03/11 02:45	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: WSW-11 **Lab ID: 9292623047** Collected: 04/21/11 11:15 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/03/11 02:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/03/11 02:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/03/11 02:45	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/03/11 02:45	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/03/11 02:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/03/11 02:45	95-47-6	
Dibromofluoromethane (S)	108	%	70-130		1		05/03/11 02:45	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		05/03/11 02:45	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		05/03/11 02:45	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		05/03/11 02:45	17060-07-0	

Sample: WSW-13 **Lab ID: 9292623048** Collected: 04/21/11 11:05 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/01/11 16:06	05/02/11 00:34	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	05/01/11 16:06	05/02/11 00:34	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/03/11 03:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/03/11 03:03	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/03/11 03:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/03/11 03:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/03/11 03:03	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/03/11 03:03	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/03/11 03:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/03/11 03:03	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/03/11 03:03	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/03/11 03:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/03/11 03:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/03/11 03:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/03/11 03:03	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/03/11 03:03	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/03/11 03:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/03/11 03:03	95-47-6	
Dibromofluoromethane (S)	106	%	70-130		1		05/03/11 03:03	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		05/03/11 03:03	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		05/03/11 03:03	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		05/03/11 03:03	17060-07-0	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: WSW-14 **Lab ID: 9292623049** Collected: 04/21/11 10:45 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/01/11 16:06	05/02/11 00:52	106-93-4	
1-Chloro-2-bromopropane (S)	100	%	60-140		1	05/01/11 16:06	05/02/11 00:52	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/03/11 03:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/03/11 03:21	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/03/11 03:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/03/11 03:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/03/11 03:21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/03/11 03:21	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/03/11 03:21	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/03/11 03:21	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/03/11 03:21	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/03/11 03:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/03/11 03:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/03/11 03:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/03/11 03:21	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/03/11 03:21	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/03/11 03:21	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/03/11 03:21	95-47-6	
Dibromofluoromethane (S)	107	%	70-130		1		05/03/11 03:21	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		05/03/11 03:21	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		05/03/11 03:21	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		05/03/11 03:21	17060-07-0	

Sample: WSW-15 **Lab ID: 9292623050** Collected: 04/21/11 10:35 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/01/11 16:06	05/02/11 01:10	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	05/01/11 16:06	05/02/11 01:10	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/03/11 03:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/03/11 03:39	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/03/11 03:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/03/11 03:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/03/11 03:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/03/11 03:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/03/11 03:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/03/11 03:39	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/03/11 03:39	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/03/11 03:39	100-41-4	

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ANALYTICAL RESULTS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Sample: WSW-15 **Lab ID: 9292623050** Collected: 04/21/11 10:35 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Oxygenates	Analytical Method: EPA 8260								
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/03/11 03:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/03/11 03:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/03/11 03:39	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/03/11 03:39	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/03/11 03:39	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/03/11 03:39	95-47-6	
Dibromofluoromethane (S)	104	%	70-130		1		05/03/11 03:39	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		05/03/11 03:39	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130		1		05/03/11 03:39	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		05/03/11 03:39	17060-07-0	

Sample: WSW-8 Post **Lab ID: 9292623051** Collected: 04/21/11 11:55 Received: 04/22/11 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/01/11 16:06	05/02/11 01:28	106-93-4	
1-Chloro-2-bromopropane (S)	100	%	60-140		1	05/01/11 16:06	05/02/11 01:28	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/03/11 03:57	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/03/11 03:57	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/03/11 03:57	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/03/11 03:57	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/03/11 03:57	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/03/11 03:57	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/03/11 03:57	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/03/11 03:57	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/03/11 03:57	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/03/11 03:57	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/03/11 03:57	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/03/11 03:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/03/11 03:57	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/03/11 03:57	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/03/11 03:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/03/11 03:57	95-47-6	
Dibromofluoromethane (S)	110	%	70-130		1		05/03/11 03:57	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		05/03/11 03:57	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130		1		05/03/11 03:57	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		05/03/11 03:57	17060-07-0	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

QC Batch: OEXT/13411 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9292623001, 9292623002, 9292623003, 9292623004, 9292623005, 9292623006, 9292623007, 9292623008, 9292623009, 9292623010, 9292623016, 9292623024, 9292623026, 9292623029, 9292623030, 9292623031, 9292623032, 9292623034, 9292623037

METHOD BLANK: 598763 Matrix: Water
Associated Lab Samples: 9292623001, 9292623002, 9292623003, 9292623004, 9292623005, 9292623006, 9292623007, 9292623008, 9292623009, 9292623010, 9292623016, 9292623024, 9292623026, 9292623029, 9292623030, 9292623031, 9292623032, 9292623034, 9292623037

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	04/29/11 17:56	
1-Chloro-2-bromopropane (S)	%	107	60-140	04/29/11 17:56	

LABORATORY CONTROL SAMPLE & LCSD: 598764 598765

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.33	0.32	116	116	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				99	106	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 598766 598767

Parameter	Units	9292623009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.31	0.31	110	110	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						99	100	60-140			

SAMPLE DUPLICATE: 598768

Parameter	Units	9292623010 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	103	102	0		

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

QC Batch: OEXT/13412 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9292623011, 9292623012, 9292623013, 9292623014, 9292623015, 9292623017, 9292623018, 9292623019, 9292623020, 9292623021, 9292623022, 9292623023, 9292623025, 9292623027, 9292623028, 9292623033, 9292623035, 9292623036, 9292623038, 9292623039

METHOD BLANK: 598773 Matrix: Water
Associated Lab Samples: 9292623011, 9292623012, 9292623013, 9292623014, 9292623015, 9292623017, 9292623018, 9292623019, 9292623020, 9292623021, 9292623022, 9292623023, 9292623025, 9292623027, 9292623028, 9292623033, 9292623035, 9292623036, 9292623038, 9292623039

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	04/30/11 02:10	
1-Chloro-2-bromopropane (S)	%	99	60-140	04/30/11 02:10	

LABORATORY CONTROL SAMPLE & LCSD: 598774 598775

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.29	0.32	0.31	112	112	60-140	3	20	
1-Chloro-2-bromopropane (S)	%				103	101	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 598776 598777

Parameter	Units	9292623011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.31	0.31	110	110	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						106	104	60-140			

SAMPLE DUPLICATE: 598778

Parameter	Units	9292623012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	6.0	5.3	11	20	
1-Chloro-2-bromopropane (S)	%	0	0			S4

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

QC Batch: OEXT/13424 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9292623040, 9292623041, 9292623042, 9292623043, 9292623044, 9292623045, 9292623046, 9292623047, 9292623048, 9292623049, 9292623050, 9292623051

METHOD BLANK: 599320 Matrix: Water
Associated Lab Samples: 9292623040, 9292623041, 9292623042, 9292623043, 9292623044, 9292623045, 9292623046, 9292623047, 9292623048, 9292623049, 9292623050, 9292623051

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	05/01/11 19:42	
1-Chloro-2-bromopropane (S)	%	94	60-140	05/01/11 19:42	

LABORATORY CONTROL SAMPLE & LCSD: 599321 599322

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.28	0.35	98	122	60-140	21	20	R1
1-Chloro-2-bromopropane (S)	%				93	108	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 599323 599324

Parameter	Units	9292623040 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.30	0.29	108	104	60-140	4	20	
1-Chloro-2-bromopropane (S)	%						99	95	60-140			

SAMPLE DUPLICATE: 599325

Parameter	Units	9292623041 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	97	93	4		

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

QC Batch: MSV/15027 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9292623002, 9292623004, 9292623005, 9292623009, 9292623010, 9292623024, 9292623026, 9292623029, 9292623030, 9292623031, 9292623032, 9292623034, 9292623037

METHOD BLANK: 598855 Matrix: Water
Associated Lab Samples: 9292623002, 9292623004, 9292623005, 9292623009, 9292623010, 9292623024, 9292623026, 9292623029, 9292623030, 9292623031, 9292623032, 9292623034, 9292623037

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	05/02/11 21:17	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	05/02/11 21:17	
Benzene	ug/L	ND	5.0	05/02/11 21:17	
Diisopropyl ether	ug/L	ND	5.0	05/02/11 21:17	
Ethanol	ug/L	ND	200	05/02/11 21:17	
Ethyl-tert-butyl ether	ug/L	ND	10.0	05/02/11 21:17	
Ethylbenzene	ug/L	ND	5.0	05/02/11 21:17	
m&p-Xylene	ug/L	ND	10.0	05/02/11 21:17	
Methyl-tert-butyl ether	ug/L	ND	5.0	05/02/11 21:17	
Naphthalene	ug/L	ND	5.0	05/02/11 21:17	
o-Xylene	ug/L	ND	5.0	05/02/11 21:17	
tert-Amyl Alcohol	ug/L	ND	100	05/02/11 21:17	
tert-Amylmethyl ether	ug/L	ND	10.0	05/02/11 21:17	
tert-Butyl Alcohol	ug/L	ND	100	05/02/11 21:17	
tert-Butyl Formate	ug/L	ND	50.0	05/02/11 21:17	
Toluene	ug/L	ND	5.0	05/02/11 21:17	
1,2-Dichloroethane-d4 (S)	%	102	70-130	05/02/11 21:17	
4-Bromofluorobenzene (S)	%	99	70-130	05/02/11 21:17	
Dibromofluoromethane (S)	%	101	70-130	05/02/11 21:17	
Toluene-d8 (S)	%	96	70-130	05/02/11 21:17	

LABORATORY CONTROL SAMPLE: 598856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.3	91	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1020	102	70-130	
Benzene	ug/L	50	43.3	87	70-130	
Diisopropyl ether	ug/L	50	45.6	91	70-130	
Ethanol	ug/L	2000	2200	110	70-130	
Ethyl-tert-butyl ether	ug/L	100	92.3	92	70-130	
Ethylbenzene	ug/L	50	45.1	90	70-130	
m&p-Xylene	ug/L	100	90.6	91	70-130	
Methyl-tert-butyl ether	ug/L	50	43.9	88	70-130	
Naphthalene	ug/L	50	44.4	89	70-130	
o-Xylene	ug/L	50	45.0	90	70-130	
tert-Amyl Alcohol	ug/L	1000	957	96	70-130	
tert-Amylmethyl ether	ug/L	100	89.9	90	70-130	
tert-Butyl Alcohol	ug/L	500	555	111	70-130	
tert-Butyl Formate	ug/L	400	385	96	70-130	
Toluene	ug/L	50	41.5	83	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

LABORATORY CONTROL SAMPLE: 598856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 598857 598858

Parameter	Units	9292623010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	48.3	50.2	97	100	70-130	4	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	839	941	84	94	70-130	11	30	
Benzene	ug/L	ND	50	50	47.8	47.6	96	95	70-130	0	30	
Diisopropyl ether	ug/L	ND	50	50	46.8	49.3	94	99	70-130	5	30	
Ethanol	ug/L	ND	2000	2000	1260	2910	63	146	70-130	79	30	M0,R1
Ethyl-tert-butyl ether	ug/L	ND	100	100	92.4	94.9	92	95	70-130	3	30	
Ethylbenzene	ug/L	ND	50	50	47.0	46.6	94	93	70-130	1	30	
m&p-Xylene	ug/L	ND	100	100	95.2	88.1	95	88	70-130	8	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	46.4	48.0	93	96	70-130	3	30	
Naphthalene	ug/L	ND	50	50	41.3	42.6	83	85	70-130	3	30	
o-Xylene	ug/L	ND	50	50	49.2	46.4	98	93	70-130	6	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	827	931	83	93	70-130	12	30	
tert-Amylmethyl ether	ug/L	ND	100	100	88.6	90.4	89	90	70-130	2	30	
tert-Butyl Alcohol	ug/L	ND	500	500	463	603	93	121	70-130	26	30	
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	50	50	46.9	45.2	94	90	70-130	4	30	
1,2-Dichloroethane-d4 (S)	%						105	101	70-130			
4-Bromofluorobenzene (S)	%						107	104	70-130			
Dibromofluoromethane (S)	%						105	104	70-130			
Toluene-d8 (S)	%						99	96	70-130			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

QC Batch: MSV/15030 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9292623006, 9292623007, 9292623008, 9292623011, 9292623012, 9292623013, 9292623014, 9292623015, 9292623017, 9292623018, 9292623019, 9292623020, 9292623021, 9292623022, 9292623023, 9292623025, 9292623027

METHOD BLANK: 598869 Matrix: Water
Associated Lab Samples: 9292623006, 9292623007, 9292623008, 9292623011, 9292623012, 9292623013, 9292623014, 9292623015, 9292623017, 9292623018, 9292623019, 9292623020, 9292623021, 9292623022, 9292623023, 9292623025, 9292623027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	04/30/11 13:19	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	04/30/11 13:19	
Benzene	ug/L	ND	5.0	04/30/11 13:19	
Diisopropyl ether	ug/L	ND	5.0	04/30/11 13:19	
Ethanol	ug/L	ND	200	04/30/11 13:19	
Ethyl-tert-butyl ether	ug/L	ND	10.0	04/30/11 13:19	
Ethylbenzene	ug/L	ND	5.0	04/30/11 13:19	
m&p-Xylene	ug/L	ND	10.0	04/30/11 13:19	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/30/11 13:19	
Naphthalene	ug/L	ND	5.0	04/30/11 13:19	
o-Xylene	ug/L	ND	5.0	04/30/11 13:19	
tert-Amyl Alcohol	ug/L	ND	100	04/30/11 13:19	
tert-Amylmethyl ether	ug/L	ND	10.0	04/30/11 13:19	
tert-Butyl Alcohol	ug/L	ND	100	04/30/11 13:19	
tert-Butyl Formate	ug/L	ND	50.0	04/30/11 13:19	
Toluene	ug/L	ND	5.0	04/30/11 13:19	
1,2-Dichloroethane-d4 (S)	%	97	70-130	04/30/11 13:19	
4-Bromofluorobenzene (S)	%	96	70-130	04/30/11 13:19	
Dibromofluoromethane (S)	%	101	70-130	04/30/11 13:19	
Toluene-d8 (S)	%	96	70-130	04/30/11 13:19	

LABORATORY CONTROL SAMPLE: 598870

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	53.8	108	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1060	106	70-130	
Benzene	ug/L	50	50.6	101	70-130	
Diisopropyl ether	ug/L	50	50.7	101	70-130	
Ethanol	ug/L	2000	2710	136	70-130	L3
Ethyl-tert-butyl ether	ug/L	100	104	104	70-130	
Ethylbenzene	ug/L	50	51.1	102	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	49.2	98	70-130	
Naphthalene	ug/L	50	46.8	94	70-130	
o-Xylene	ug/L	50	51.0	102	70-130	
tert-Amyl Alcohol	ug/L	1000	1130	113	70-130	
tert-Amylmethyl ether	ug/L	100	97.8	98	70-130	
tert-Butyl Alcohol	ug/L	500	631	126	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

LABORATORY CONTROL SAMPLE: 598870

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	385	96	70-130	
Toluene	ug/L	50	49.5	99	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			110	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 598871 598872

Parameter	Units	9292623011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	53.3	59.1	107	118	70-130	10	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	821	1010	82	101	70-130	20	30	
Benzene	ug/L	ND	50	50	50.4	57.9	99	114	70-130	14	30	
Diisopropyl ether	ug/L	ND	50	50	48.3	54.9	97	110	70-130	13	30	
Ethanol	ug/L	ND	2000	2000	2080	2840	104	142	70-130	31	30	M0,R1
Ethyl-tert-butyl ether	ug/L	ND	100	100	94.8	108	95	108	70-130	13	30	
Ethylbenzene	ug/L	ND	50	50	50.3	56.6	100	112	70-130	12	30	
m&p-Xylene	ug/L	ND	100	100	101	112	100	110	70-130	10	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	46.1	51.6	92	103	70-130	11	30	
Naphthalene	ug/L	ND	50	50	49.0	49.9	98	100	70-130	2	30	
o-Xylene	ug/L	ND	50	50	50.4	58.5	100	116	70-130	15	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	940	1190	94	119	70-130	23	30	
tert-Amylmethyl ether	ug/L	ND	100	100	91.5	111	91	111	70-130	19	30	
tert-Butyl Alcohol	ug/L	ND	500	500	495	567	99	113	70-130	14	30	
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	50	50	50.8	57.3	101	114	70-130	12	30	
1,2-Dichloroethane-d4 (S)	%						99	99	70-130			
4-Bromofluorobenzene (S)	%						101	94	70-130			
Dibromofluoromethane (S)	%						92	92	70-130			
Toluene-d8 (S)	%						100	104	70-130			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

QC Batch: MSV/15031 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9292623028, 9292623033, 9292623035, 9292623036, 9292623038, 9292623039, 9292623040, 9292623041, 9292623042, 9292623043, 9292623044

METHOD BLANK: 598873 Matrix: Water
Associated Lab Samples: 9292623028, 9292623033, 9292623035, 9292623036, 9292623038, 9292623039, 9292623040, 9292623041, 9292623042, 9292623043, 9292623044

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	04/30/11 13:37	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	04/30/11 13:37	
Benzene	ug/L	ND	5.0	04/30/11 13:37	
Diisopropyl ether	ug/L	ND	5.0	04/30/11 13:37	
Ethanol	ug/L	ND	200	04/30/11 13:37	
Ethyl-tert-butyl ether	ug/L	ND	10.0	04/30/11 13:37	
Ethylbenzene	ug/L	ND	5.0	04/30/11 13:37	
m&p-Xylene	ug/L	ND	10.0	04/30/11 13:37	
Methyl-tert-butyl ether	ug/L	ND	5.0	04/30/11 13:37	
Naphthalene	ug/L	ND	5.0	04/30/11 13:37	
o-Xylene	ug/L	ND	5.0	04/30/11 13:37	
tert-Amyl Alcohol	ug/L	ND	100	04/30/11 13:37	
tert-Amylmethyl ether	ug/L	ND	10.0	04/30/11 13:37	
tert-Butyl Alcohol	ug/L	ND	100	04/30/11 13:37	
tert-Butyl Formate	ug/L	ND	50.0	04/30/11 13:37	
Toluene	ug/L	ND	5.0	04/30/11 13:37	
1,2-Dichloroethane-d4 (S)	%	103	70-130	04/30/11 13:37	
4-Bromofluorobenzene (S)	%	105	70-130	04/30/11 13:37	
Dibromofluoromethane (S)	%	109	70-130	04/30/11 13:37	
Toluene-d8 (S)	%	97	70-130	04/30/11 13:37	

LABORATORY CONTROL SAMPLE: 598874

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.2	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1030	103	70-130	
Benzene	ug/L	50	47.5	95	70-130	
Diisopropyl ether	ug/L	50	49.9	100	70-130	
Ethanol	ug/L	2000	2780	139	70-130	L3
Ethyl-tert-butyl ether	ug/L	100	98.5	99	70-130	
Ethylbenzene	ug/L	50	49.8	100	70-130	
m&p-Xylene	ug/L	100	99.8	100	70-130	
Methyl-tert-butyl ether	ug/L	50	47.6	95	70-130	
Naphthalene	ug/L	50	47.1	94	70-130	
o-Xylene	ug/L	50	49.4	99	70-130	
tert-Amyl Alcohol	ug/L	1000	1070	107	70-130	
tert-Amylmethyl ether	ug/L	100	96.3	96	70-130	
tert-Butyl Alcohol	ug/L	500	621	124	70-130	
tert-Butyl Formate	ug/L	400	395	99	70-130	
Toluene	ug/L	50	47.8	96	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

LABORATORY CONTROL SAMPLE: 598874

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 598875 598876

Parameter	Units	9292623033 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	49.0	51.7	98	103	70-130	5	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	817	889	82	89	70-130	8	30	
Benzene	ug/L	ND	50	50	51.7	49.1	103	98	70-130	5	30	
Diisopropyl ether	ug/L	ND	50	50	46.9	48.3	94	97	70-130	3	30	
Ethanol	ug/L	ND	2000	2000	8630	2110	432	106	70-130	121	30	E,M0, R1
Ethyl-tert-butyl ether	ug/L	ND	100	100	94.5	96.2	94	96	70-130	2	30	
Ethylbenzene	ug/L	ND	50	50	51.5	49.6	103	99	70-130	4	30	
m&p-Xylene	ug/L	ND	100	100	105	97.4	105	97	70-130	8	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	46.7	46.3	93	93	70-130	1	30	
Naphthalene	ug/L	ND	50	50	47.3	44.5	95	89	70-130	6	30	
o-Xylene	ug/L	ND	50	50	52.8	50.7	105	101	70-130	4	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	778	877	78	88	70-130	12	30	
tert-Amylmethyl ether	ug/L	ND	100	100	96.0	94.1	96	94	70-130	2	30	
tert-Butyl Alcohol	ug/L	ND	500	500	434	531	87	106	70-130	20	30	
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	50	50	52.3	48.9	103	97	70-130	7	30	
1,2-Dichloroethane-d4 (S)	%						102	98	70-130			
4-Bromofluorobenzene (S)	%						107	100	70-130			
Dibromofluoromethane (S)	%						102	102	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

QC Batch: MSV/15049 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9292623001, 9292623003

METHOD BLANK: 599468 Matrix: Water
Associated Lab Samples: 9292623001, 9292623003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	05/02/11 11:15	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	05/02/11 11:15	
Benzene	ug/L	ND	5.0	05/02/11 11:15	
Diisopropyl ether	ug/L	ND	5.0	05/02/11 11:15	
Ethanol	ug/L	ND	200	05/02/11 11:15	
Ethyl-tert-butyl ether	ug/L	ND	10.0	05/02/11 11:15	
Ethylbenzene	ug/L	ND	5.0	05/02/11 11:15	
m&p-Xylene	ug/L	ND	10.0	05/02/11 11:15	
Methyl-tert-butyl ether	ug/L	ND	5.0	05/02/11 11:15	
Naphthalene	ug/L	ND	5.0	05/02/11 11:15	
o-Xylene	ug/L	ND	5.0	05/02/11 11:15	
tert-Amyl Alcohol	ug/L	ND	100	05/02/11 11:15	
tert-Amylmethyl ether	ug/L	ND	10.0	05/02/11 11:15	
tert-Butyl Alcohol	ug/L	ND	100	05/02/11 11:15	
tert-Butyl Formate	ug/L	ND	50.0	05/02/11 11:15	
Toluene	ug/L	ND	5.0	05/02/11 11:15	
1,2-Dichloroethane-d4 (S)	%	115	70-130	05/02/11 11:15	
4-Bromofluorobenzene (S)	%	103	70-130	05/02/11 11:15	
Dibromofluoromethane (S)	%	114	70-130	05/02/11 11:15	
Toluene-d8 (S)	%	99	70-130	05/02/11 11:15	

LABORATORY CONTROL SAMPLE: 599469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.2	98	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1120	112	70-130	
Benzene	ug/L	50	46.4	93	70-130	
Diisopropyl ether	ug/L	50	50.2	100	70-130	
Ethanol	ug/L	2000	2400	120	70-130	
Ethyl-tert-butyl ether	ug/L	100	97.1	97	70-130	
Ethylbenzene	ug/L	50	49.4	99	70-130	
m&p-Xylene	ug/L	100	100	100	70-130	
Methyl-tert-butyl ether	ug/L	50	47.0	94	70-130	
Naphthalene	ug/L	50	46.6	93	70-130	
o-Xylene	ug/L	50	50.3	101	70-130	
tert-Amyl Alcohol	ug/L	1000	1010	101	70-130	
tert-Amylmethyl ether	ug/L	100	92.6	93	70-130	
tert-Butyl Alcohol	ug/L	500	587	117	70-130	
tert-Butyl Formate	ug/L	400	420	105	70-130	
Toluene	ug/L	50	46.5	93	70-130	
1,2-Dichloroethane-d4 (S)	%			108	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

LABORATORY CONTROL SAMPLE: 599469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			107	70-130	
Dibromofluoromethane (S)	%			107	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 599470 599471

Parameter	Units	9292872016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	50	50	51.2	48.9	102	98	70-130	5	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	1000	1000	870	935	87	93	70-130	7	30	
Benzene	ug/L	ND	50	50	51.1	51.1	102	102	70-130	0	30	
Diisopropyl ether	ug/L	ND	50	50	51.7	51.4	103	103	70-130	0	30	
Ethanol	ug/L	ND	2000	2000	1940	2210	97	111	70-130	13	30	
Ethyl-tert-butyl ether	ug/L	ND	100	100	100	102	100	102	70-130	2	30	
Ethylbenzene	ug/L	ND	50	50	46.7	50.7	93	101	70-130	8	30	
m&p-Xylene	ug/L	ND	100	100	93.5	101	94	101	70-130	8	30	
Methyl-tert-butyl ether	ug/L	ND	50	50	49.0	46.9	98	94	70-130	4	30	
Naphthalene	ug/L	ND	50	50	41.8	43.4	84	87	70-130	4	30	
o-Xylene	ug/L	ND	50	50	47.5	52.6	95	105	70-130	10	30	
tert-Amyl Alcohol	ug/L	ND	1000	1000	1010	969	101	97	70-130	4	30	
tert-Amylmethyl ether	ug/L	ND	100	100	91.9	91.1	92	91	70-130	1	30	
tert-Butyl Alcohol	ug/L	ND	500	500	620	586	124	117	70-130	6	30	
tert-Butyl Formate	ug/L	ND	400	400	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	50	50	51.9	51.2	104	102	70-130	1	30	
1,2-Dichloroethane-d4 (S)	%						99	99	70-130			
4-Bromofluorobenzene (S)	%						96	106	70-130			
Dibromofluoromethane (S)	%						105	101	70-130			
Toluene-d8 (S)	%						101	102	70-130			

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

QC Batch: MSV/15050 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9292623045, 9292623046, 9292623047, 9292623048, 9292623049, 9292623050, 9292623051

METHOD BLANK: 599499 Matrix: Water
Associated Lab Samples: 9292623045, 9292623046, 9292623047, 9292623048, 9292623049, 9292623050, 9292623051

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	05/02/11 21:35	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	05/02/11 21:35	
Benzene	ug/L	ND	5.0	05/02/11 21:35	
Diisopropyl ether	ug/L	ND	5.0	05/02/11 21:35	
Ethanol	ug/L	ND	200	05/02/11 21:35	
Ethyl-tert-butyl ether	ug/L	ND	10.0	05/02/11 21:35	
Ethylbenzene	ug/L	ND	5.0	05/02/11 21:35	
m&p-Xylene	ug/L	ND	10.0	05/02/11 21:35	
Methyl-tert-butyl ether	ug/L	ND	5.0	05/02/11 21:35	
Naphthalene	ug/L	ND	5.0	05/02/11 21:35	
o-Xylene	ug/L	ND	5.0	05/02/11 21:35	
tert-Amyl Alcohol	ug/L	ND	100	05/02/11 21:35	
tert-Amylmethyl ether	ug/L	ND	10.0	05/02/11 21:35	
tert-Butyl Alcohol	ug/L	ND	100	05/02/11 21:35	
tert-Butyl Formate	ug/L	ND	50.0	05/02/11 21:35	
Toluene	ug/L	ND	5.0	05/02/11 21:35	
1,2-Dichloroethane-d4 (S)	%	100	70-130	05/02/11 21:35	
4-Bromofluorobenzene (S)	%	100	70-130	05/02/11 21:35	
Dibromofluoromethane (S)	%	105	70-130	05/02/11 21:35	
Toluene-d8 (S)	%	96	70-130	05/02/11 21:35	

LABORATORY CONTROL SAMPLE: 599500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.9	104	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1110	111	70-130	
Benzene	ug/L	50	49.3	99	70-130	
Diisopropyl ether	ug/L	50	52.1	104	70-130	
Ethanol	ug/L	2000	2770	138	70-130	L3
Ethyl-tert-butyl ether	ug/L	100	105	105	70-130	
Ethylbenzene	ug/L	50	51.9	104	70-130	
m&p-Xylene	ug/L	100	107	107	70-130	
Methyl-tert-butyl ether	ug/L	50	51.8	104	70-130	
Naphthalene	ug/L	50	49.9	100	70-130	
o-Xylene	ug/L	50	51.8	104	70-130	
tert-Amyl Alcohol	ug/L	1000	1190	119	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	663	133	70-130	L3
tert-Butyl Formate	ug/L	400	439	110	70-130	
Toluene	ug/L	50	49.7	99	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

LABORATORY CONTROL SAMPLE: 599500

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

QC Batch: MSV/15078 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV Oxygenates SC
Associated Lab Samples: 9292623016

METHOD BLANK: 600037 — Matrix: Water
Associated Lab Samples: 9292623016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	05/03/11 12:08	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	05/03/11 12:08	
Benzene	ug/L	ND	5.0	05/03/11 12:08	
Diisopropyl ether	ug/L	ND	5.0	05/03/11 12:08	
Ethanol	ug/L	ND	200	05/03/11 12:08	
Ethyl-tert-butyl ether	ug/L	ND	10.0	05/03/11 12:08	
Ethylbenzene	ug/L	ND	5.0	05/03/11 12:08	
m&p-Xylene	ug/L	ND	10.0	05/03/11 12:08	
Methyl-tert-butyl ether	ug/L	ND	5.0	05/03/11 12:08	
Naphthalene	ug/L	ND	5.0	05/03/11 12:08	
o-Xylene	ug/L	ND	5.0	05/03/11 12:08	
tert-Amyl Alcohol	ug/L	ND	100	05/03/11 12:08	
tert-Amylmethyl ether	ug/L	ND	10.0	05/03/11 12:08	
tert-Butyl Alcohol	ug/L	ND	100	05/03/11 12:08	
tert-Butyl Formate	ug/L	ND	50.0	05/03/11 12:08	
Toluene	ug/L	ND	5.0	05/03/11 12:08	
1,2-Dichloroethane-d4 (S)	%	102	70-130	05/03/11 12:08	
4-Bromofluorobenzene (S)	%	100	70-130	05/03/11 12:08	
Dibromofluoromethane (S)	%	99	70-130	05/03/11 12:08	
Toluene-d8 (S)	%	101	70-130	05/03/11 12:08	

LABORATORY CONTROL SAMPLE: 600038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	48.0	96	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	858	86	70-130	
Benzene	ug/L	50	44.5	89	70-130	
Diisopropyl ether	ug/L	50	45.8	92	70-130	
Ethanol	ug/L	2000	2190	109	70-130	
Ethyl-tert-butyl ether	ug/L	100	92.2	92	70-130	
Ethylbenzene	ug/L	50	44.0	88	70-130	
m&p-Xylene	ug/L	100	88.7	89	70-130	
Methyl-tert-butyl ether	ug/L	50	45.9	92	70-130	
Naphthalene	ug/L	50	43.7	87	70-130	
o-Xylene	ug/L	50	45.8	92	70-130	
tert-Amyl Alcohol	ug/L	1000	849	85	70-130	
tert-Amylmethyl ether	ug/L	100	89.1	89	70-130	
tert-Butyl Alcohol	ug/L	500	555	111	70-130	
tert-Butyl Formate	ug/L	400	398	99	70-130	
Toluene	ug/L	50	44.4	89	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

LABORATORY CONTROL SAMPLE: 600038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALIFIERS

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9292623001	MW-1	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623002	MW-2	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623003	MW-3	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623004	MW-4	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623005	MW-5	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623006	MW-6	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623007	MW-7	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623008	MW-8	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623009	MW-9	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623010	MW-10	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623011	MW-11	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623012	MW-12	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623013	MW-13	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623014	MW-14	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623015	MW-15	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623016	MW-16	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623017	MW-17	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623018	MW-18	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623019	MW-19	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623020	MW-20	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623021	MW-21	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623022	MW-22	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623023	MW-23	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623024	MW-24	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623025	MW-25	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623026	MW-26	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623027	MW-27	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623028	MW-28	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623029	TW-1	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623030	TW-2	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623031	TW-3	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623032	TW-4	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623033	TW-5	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623034	TW-6	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623035	TW-7	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623036	TW-8	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623037	TW-9	EPA 8011	OEXT/13411	EPA 8011	GCSV/9660
9292623038	WSW-1 Pre	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623039	WSW-1 Post	EPA 8011	OEXT/13412	EPA 8011	GCSV/9661
9292623040	WSW-2	EPA 8011	OEXT/13424	EPA 8011	GCSV/9664
9292623041	WSW-4	EPA 8011	OEXT/13424	EPA 8011	GCSV/9664
9292623042	WSW-6	EPA 8011	OEXT/13424	EPA 8011	GCSV/9664

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 Truck Stop 14-214210

Pace Project No.: 9292623

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9292623043	WSW-7	EPA 8011	OEXT/13424	EPA 8011	GCSV/9664
9292623044	WSW-8 Pre	EPA 8011	OEXT/13424	EPA 8011	GCSV/9664
9292623045	WSW-9	EPA 8011	OEXT/13424	EPA 8011	GCSV/9664
9292623046	WSW-10	EPA 8011	OEXT/13424	EPA 8011	GCSV/9664
9292623047	WSW-11	EPA 8011	OEXT/13424	EPA 8011	GCSV/9664
9292623048	WSW-13	EPA 8011	OEXT/13424	EPA 8011	GCSV/9664
9292623049	WSW-14	EPA 8011	OEXT/13424	EPA 8011	GCSV/9664
9292623050	WSW-15	EPA 8011	OEXT/13424	EPA 8011	GCSV/9664
9292623051	WSW-8 Post	EPA 8011	OEXT/13424	EPA 8011	GCSV/9664
9292623001	MW-1	EPA 8260	MSV/15049		
9292623002	MW-2	EPA 8260	MSV/15027		
9292623003	MW-3	EPA 8260	MSV/15049		
9292623004	MW-4	EPA 8260	MSV/15027		
9292623005	MW-5	EPA 8260	MSV/15027		
9292623006	MW-6	EPA 8260	MSV/15030		
9292623007	MW-7	EPA 8260	MSV/15030		
9292623008	MW-8	EPA 8260	MSV/15030		
9292623009	MW-9	EPA 8260	MSV/15027		
9292623010	MW-10	EPA 8260	MSV/15027		
9292623011	MW-11	EPA 8260	MSV/15030		
9292623012	MW-12	EPA 8260	MSV/15030		
9292623013	MW-13	EPA 8260	MSV/15030		
9292623014	MW-14	EPA 8260	MSV/15030		
9292623015	MW-15	EPA 8260	MSV/15030		
9292623016	MW-16	EPA 8260	MSV/15078		
9292623017	MW-17	EPA 8260	MSV/15030		
9292623018	MW-18	EPA 8260	MSV/15030		
9292623019	MW-19	EPA 8260	MSV/15030		
9292623020	MW-20	EPA 8260	MSV/15030		
9292623021	MW-21	EPA 8260	MSV/15030		
9292623022	MW-22	EPA 8260	MSV/15030		
9292623023	MW-23	EPA 8260	MSV/15030		
9292623024	MW-24	EPA 8260	MSV/15027		
9292623025	MW-25	EPA 8260	MSV/15030		
9292623026	MW-26	EPA 8260	MSV/15027		
9292623027	MW-27	EPA 8260	MSV/15030		
9292623028	MW-28	EPA 8260	MSV/15031		
9292623029	TW-1	EPA 8260	MSV/15027		
9292623030	TW-2	EPA 8260	MSV/15027		
9292623031	TW-3	EPA 8260	MSV/15027		
9292623032	TW-4	EPA 8260	MSV/15027		

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Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 378 Truck Stop 14-214210
Pace Project No.: 9292623

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
9292623033	**TW-5**	EPA 8260	MSV/15031		
9292623034	**TW-6**	EPA 8260	MSV/15027		
9292623035	**TW-7**	EPA 8260	MSV/15031		
9292623036	**TW-8**	EPA 8260	MSV/15031		
9292623037	**TW-9**	EPA 8260	MSV/15027		
9292623038	**WSW-1 Pre**	EPA 8260	MSV/15031		
9292623039	**WSW-1 Post**	EPA 8260	MSV/15031		
9292623040	**WSW-2**	EPA 8260	MSV/15031		
9292623041	**WSW-4**	EPA 8260	MSV/15031		
9292623042	**WSW-6**	EPA 8260	MSV/15031		
9292623043	**WSW-7**	EPA 8260	MSV/15031		
9292623044	**WSW-8 Pre**	EPA 8260	MSV/15031		
9292623045	**WSW-9**	EPA 8260	MSV/15050		
9292623046	**WSW-10**	EPA 8260	MSV/15050		
9292623047	**WSW-11**	EPA 8260	MSV/15050		
9292623048	**WSW-13**	EPA 8260	MSV/15050		
9292623049	**WSW-14**	EPA 8260	MSV/15050		
9292623050	**WSW-15**	EPA 8260	MSV/15050		
9292623051	**WSW-8 Post**	EPA 8260	MSV/15050		

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 3

1474798

Section A — **Required** Client Information:

- Company: ECS
- Address: 13504 S. Point Blvd, Charlotte, NC
- Email To: cDupuis@ecsc[redacted]y.com
- Phone: 704-583-2711 Fax:
- Requested Due Date/TAT: Standard

Section B — **Required** Project Information:

- Report To: Christine Dupuis
- Copy To:
- Purchase Order No.: 14-214210
- Project Name: 378 Truck Stop
- Project Number: 14-214210

Section C — Invoice Information:

- Attention: Sue Streeter
- Company Name: ECS
- Address: Agawam, MA
- Pace Quote Reference:
- Pace Project Manager: Kevin Herring
- Pace Profile #: 2291-7

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: SC

Section D — **Required** Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Pace Project No./ Lab I.D.: 9292623

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 BTEX,M,N	1,2-DCA	8 oxygenates	8011 EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G			4-19-11	1430		6				X						X	X	X	X		001
2	MW-2					4-20-11	1210																	002
3	MW-3					4-19-11	1305																	003
4	MW-4					4-20-11	1605																	004
5	MW-5						1535																	005
6	MW-6						1545																	006
7	MW-7						1620																	007
8	MW-8						1555																	008
9	MW-9					4-19-11	1530																	009
10	MW-10						1625																	010
11	MW-11					4-20-11	1340																	011
12	MW-12						1315																	012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Please report J-values	A. Williamson / ECS	4/21/11	1630	PACE	04/22/11	1245				
	PACE	4/22/11	1400	Justin McAuley / Pace CH	4/22/11	1400	2.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Williamson

SIGNATURE of SAMPLER: Aaron Williamson DATE Signed (MM/DD/YY): 4/21/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 5

1474797

Section A Required Client Information:
- Company: ECS
- Address: 13504 S. Point Blvd Charlotte, NC
- Email To: CDupuis@ecsconsult.com
- Phone: 704-583-2711 Fax:
- Requested Due Date/TAT: Standard

Section B Required Project Information:
- Report To: Christine Dupuis
- Copy To:
- Purchase Order No.: 14-214210
- Project Name: 378 Truck Stop
- Project Number: 14-214210

Section C Invoice Information:
- Attention: Sue Streeter
- Company Name: ECS
- Address: Agawam, MA
- Pace Quote Reference:
- Pace Project Manager: Kevin Herring
- Pace Profile #:

REGULATORY AGENCY
- NPDES
- GROUND WATER
- DRINKING WATER
- X UST
- RCRA
- OTHER

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 9292623

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	8260 BTEX, M, N	1,2-DCA	8 Oxygenates	8011 EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-13	WT	G			4-20-11	1500		6				X					X	X	X	X		~~00~~012
2	MW-14						1350																EW 4/22 014
3	MW-15						1410																015 ~~014~~
4	MW-16					4-19-11	1910																016
5	MW-17					4-20-11	1130																017
6	MW-18						1235																018
7	MW-19						955																019
8	MW-20						1520																020
9	MW-21					4-21-11	850																021
10	MW-22					4-20-11	1400																022
11	MW-23					4-20-11	1040																023
12	MW-24					4-19-11	1755																024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Please report J-values	A. Williamson / ECS	4-21-11	1630	PACE	04/22/11	1245				
	PACE	4/22/11	1400	Pace CH	4/22/11	1400	2.8	Y	N	Y

SAMPLE CONDITIONS

ORIGINAL

SAMPLER NAME AND SIGNATURE
- PRINT Name of SAMPLER: Aaron Williamson
- SIGNATURE of SAMPLER: Aaron Williamson
- DATE Signed (MM/DD/YY): 4/21/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 3 of 5

1474800

Section A
Required Client Information:

Company: ECS
Address: 13504 S. Point Blvd
Charlotte, NC
Email To: CDupuis@ecsconsult.com
Phone: 704-583-2711 Fax:
Requested Due Date/TAT: Standard

Section B
Required Project Information:

Report To: Christine Dupuis
Copy To:
Purchase Order No.: 14-214210
Project Name: 378 Truck Stop
Project Number: 14-214210

Section C
Invoice Information:

Attention: Sue Streeter
Company Name: ECS
Address: Agawam, MA
Pace Quote Reference:
Pace Project Manager: Kevin Herring
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: SC

Section D
Required Client Information

Matrix Codes
MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Tissue TS
Other OT

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 9292623

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N Analysis Test	8260 BTEX, M, N	1,2-DCA	8 oxygenates	8011 EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-25	WT	G			4-20-11	855		6				X						X	X	X	X		025
2	MW-26					4-19-11	1820																	026
3	MW-27					4-20-11	1630																	027
4	MW-28					4-21-11	915																	028
5	TW-1					4-19-11	1400																	029
6	TW-2						1310																	030
7	TW-3						1540																	031
8	TW-4						1635																	032
9	TW-5					4-20-11	1320																	033
10	TW-6					4-19-11	1915																	034
11	TW-7					4-20-11	1140																	035
12	TW-8					4-20-11	1005																	036

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Please report J-values	A. Williamson / ECS	4/21/11	1630	PACE	04/22/11	1245				
	PACE	4/22/11	1406	pace clt	4/22/11	1400	2.8	Y	n	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Williamson
SIGNATURE of SAMPLER: Aaron Williamson
DATE Signed (MM/DD/YY): 4/21/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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1474799

Section A — Required Client Information:

- Company: ECS
- Address: 13504 S. Point Blvd
- Charlotte, NC
- Email To: CDupuis@ecsconsult.com
- Phone: 704-583-2711 Fax:
- Requested Due Date/TAT: Standard

Section B — Required Project Information:

- Report To: Christine Dupuis
- Copy To:
- Purchase Order No.: 14-214210
- Project Name: 378 Truck Stop
- Project Number: 14-214210

Section C — Invoice Information:

- Attention: Sue Streeter
- Company Name: ECS
- Address: Agawam, MA
- Pace Quote Reference:
- Pace Project Manager: Kevin Herring
- Pace Profile #:

REGULATORY AGENCY

NPDES / GROUND WATER / DRINKING WATER / X UST / RCRA / OTHER ______

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 BTEX, M, N	1,2-DCA	8 oxygenates	8011 EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9292623
1	TW-9	WT	G			4-19-11	1745		6				X						X	X	X	X		037
2	WSW-1 PRE					4-20-11	1430																	038
3	WSW-1 POST					4-20-11	1420																	039
4	WSW-2					4-20-11	900																	040
5	WSW-4					4-21-11	935																	041
6	WSW-6					4-21-11	1000																	042
7	WSW-7					4-21-11	1010																	043
8	WSW-8 PRE					4-21-11	1145																	044
9	WSW-9					4-21-11	1025																	045
10	WSW-10					4-21-11	1130																	046
11	WSW-11					4-21-11	1115																	047
12	WSW-13					4-21-11	1105																	048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Please report J-values	A. Williamson/ECS	4/21/11	1630	[signature] / PACE	04/22/11	1245				
	[signature] / PACE	4/22/11	1400	[signature] / pace clt	4/22/11	1400	2.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Williamson

SIGNATURE of SAMPLER: Aaron Williamson DATE Signed (MM/DD/YY): 4/21/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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1474752

Section A Required Client Information:

Company:	ECS
Address:	13504 S. Point Blvd Charlotte, NC
Email To:	CDupuis@ecsconsult.com
Phone:	704-583-2711
Fax:	
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Christine Dupuis
Copy To:	
Purchase Order No.:	14-214210
Project Name:	378 Truck Stop
Project Number:	14-214210

Section C Invoice Information:

Attention:	Sue Streeter
Company Name:	ECS
Address:	Agawam, MA
Pace Quote Reference:	
Pace Project Manager:	Kevin Herring
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: SC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes	MATRIX / CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	8260 BTEX, M, N	1,2-DCA	8-oxygenates	8011 EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9292623
1	WSW-14	WT	G	~~4-21-11~~ AW		4-21-11	1045		6				X					X	X	X	X		049
2	WSW-15	↓	↓				1035																050
3	WSW-8 POST	↓	↓			↓	1155		↓				↓					↓	↓	↓	↓		051
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Please report J-values	A. Williamson/ECS	4-21-11	1630	PACE	04/22/11	1245				
	PACE	4/22/11	1400	pace CLT	4/22/11	1400	2.8	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Williamson

SIGNATURE of SAMPLER: A. Williamson

DATE Signed (MM/DD/YY): 4/21/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: ECS Project # 9292623

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other________

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other________

Thermometer Used: IR Gun : T1101 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor: Add / Subtract 0 **°C**

Corrected Cooler Temp.: 28 **C** **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: JMM 4-22-11

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:________		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):________		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: ________________ Date/Time: ________

Comments/ Resolution: ________________

SCURF Review: GW **Date:** 4/22/11 **SRF Review:** KBH **Date:** 4/25/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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May 17, 2011

Ms. Christine Dupuis
Environmental Compliance Servi
13504 South Point Blvd
Charlotte, NC 28273

RE: Project: 378 TRUCK STOP
Pace Project No.: 9293392

Dear Ms. Dupuis:

Enclosed are the analytical results for sample(s) received by the laboratory on May 04, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project:	378 TRUCK STOP
Pace Project No.:	9293392

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

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SAMPLE SUMMARY

Project: 378 TRUCK STOP
Pace Project No.: 9293392

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9293392001	**WSW-3**	Water	05/03/11 11:00	05/04/11 15:20

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SAMPLE ANALYTE COUNT

Project: 378 TRUCK STOP
Pace Project No.: 9293392

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9293392001	**WSW-3**	EPA 8011	CAH	2	PASI-C
		EPA 8260	KJM	20	PASI-C

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ANALYTICAL RESULTS

Project: 378 TRUCK STOP
Pace Project No.: 9293392

Sample: WSW-3 **Lab ID: 9293392001** Collected: 05/03/11 11:00 Received: 05/04/11 15:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	05/12/11 13:00	05/12/11 18:09	106-93-4	
1-Chloro-2-bromopropane (S)	109	%	60-140		1	05/12/11 13:00	05/12/11 18:09	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		05/16/11 17:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		05/16/11 17:41	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/16/11 17:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		05/16/11 17:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		05/16/11 17:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		05/16/11 17:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		05/16/11 17:41	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		05/16/11 17:41	108-20-3	
Ethanol	ND	ug/L	200	138	1		05/16/11 17:41	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		05/16/11 17:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		05/16/11 17:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		05/16/11 17:41	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		05/16/11 17:41	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		05/16/11 17:41	108-88-3	
m&p-Xylene	ND	ug/L	10.0	3.1	1		05/16/11 17:41	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		05/16/11 17:41	95-47-6	
Dibromofluoromethane (S)	108	%	70-130		1		05/16/11 17:41	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		05/16/11 17:41	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1		05/16/11 17:41	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		05/16/11 17:41	17060-07-0	

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QUALITY CONTROL DATA

Project: 378 TRUCK STOP
Pace Project No.: 9293392

QC Batch: OEXT/13564
Analysis Method: EPA 8011
QC Batch Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9293392001

METHOD BLANK: 605326
Matrix: Water
Associated Lab Samples: 9293392001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	05/12/11 13:51	
1-Chloro-2-bromopropane (S)	%	104	60-140	05/12/11 13:51	

LABORATORY CONTROL SAMPLE & LCSD: 605327 605328

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.30	0.29	106	104	60-140	3	20	
1-Chloro-2-bromopropane (S)	%				105	108	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605329 605330

Parameter	Units	9293392001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.28	.28	0.30	0.30	110	108	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						113	110	60-140			

SAMPLE DUPLICATE: 605331

Parameter	Units	9293823004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	108	109	1		

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