

ANALYTICAL RESULTS

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

Sample: 03439 RW-1 Dup Lab ID: 92357775014 Collected: 10/03/17 09:13 Received: 10/04/17 13:30 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	10/06/17 13:57	10/07/17 05:53	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	145	%	60-140		1	10/06/17 13:57	10/07/17 05:53	301-79-56	S3
8260 MSV Low Level SC Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	10000	5000	100		10/09/17 19:53	75-85-4	
tert-Amylmethyl ether	367J	ug/L	1000	10.0	100		10/09/17 19:53	994-05-8	
Benzene	2440	ug/L	100	25.0	100		10/09/17 19:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	5000	100		10/09/17 19:53	624-95-3	
tert-Butyl Alcohol	2690J	ug/L	10000	362	100		10/09/17 19:53	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	189	100		10/09/17 19:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	24.0	100		10/09/17 19:53	107-06-2	
Diisopropyl ether	213	ug/L	100	12.0	100		10/09/17 19:53	108-20-3	
Ethanol	ND	ug/L	20000	13100	100		10/09/17 19:53	64-17-5	
Ethylbenzene	1060	ug/L	100	30.0	100		10/09/17 19:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	7.0	100		10/09/17 19:53	637-92-3	
Methyl-tert-butyl ether	10200	ug/L	100	21.0	100		10/09/17 19:53	1634-04-4	M1
Naphthalene	274	ug/L	100	24.0	100		10/09/17 19:53	91-20-3	
Toluene	9230	ug/L	100	26.0	100		10/09/17 19:53	108-88-3	
Xylene (Total)	6200	ug/L	100	100	100		10/09/17 19:53	1330-20-7	
m&p-Xylene	4190	ug/L	200	66.0	100		10/09/17 19:53	179601-23-1	
o-Xylene	2020	ug/L	100	23.0	100		10/09/17 19:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		100		10/09/17 19:53	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		100		10/09/17 19:53	17060-07-0	
Toluene-d8 (S)	102	%	70-130		100		10/09/17 19:53	2037-26-5	

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ANALYTICAL RESULTS

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

Sample: 03439 RW-4 Lab ID: 92357775015 Collected: 10/03/17 10:27 Received: 10/04/17 13:30 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	10/06/17 13:57	10/07/17 06:13	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	111	%	60-140		1	10/06/17 13:57	10/07/17 06:13	301-79-56	
8260 MSV Low Level SC		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	1000	500	10		10/09/17 20:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	1.0	10		10/09/17 20:11	994-05-8	
Benzene	391	ug/L	10.0	2.5	10		10/09/17 20:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	500	10		10/09/17 20:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	36.2	10		10/09/17 20:11	75-65-0	
tert-Butyl Formate	ND	ug/L	500	18.9	10		10/09/17 20:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	2.4	10		10/09/17 20:11	107-06-2	
Diisopropyl ether	3.9J	ug/L	10.0	1.2	10		10/09/17 20:11	108-20-3	
Ethanol	ND	ug/L	2000	1310	10		10/09/17 20:11	64-17-5	
Ethylbenzene	273	ug/L	10.0	3.0	10		10/09/17 20:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	0.70	10		10/09/17 20:11	637-92-3	
Methyl-tert-butyl ether	20.6	ug/L	10.0	2.1	10		10/09/17 20:11	1634-04-4	
Naphthalene	261	ug/L	10.0	2.4	10		10/09/17 20:11	91-20-3	
Toluene	1370	ug/L	10.0	2.6	10		10/09/17 20:11	108-88-3	
Xylene (Total)	2060	ug/L	10.0	10.0	10		10/09/17 20:11	1330-20-7	
m&p-Xylene	1480	ug/L	20.0	6.6	10		10/09/17 20:11	179601-23-1	
o-Xylene	578	ug/L	10.0	2.3	10		10/09/17 20:11	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		10		10/09/17 20:11	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		10		10/09/17 20:11	17060-07-0	
Toluene-d8 (S)	106	%	70-130		10		10/09/17 20:11	2037-26-5	

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ANALYTICAL RESULTS

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

Sample: 03439 RW-8 Lab ID: 92357775016 Collected: 10/03/17 12:13 Received: 10/04/17 13:30 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	10/06/17 13:57	10/07/17 06:33	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	154	%	60-140		1	10/06/17 13:57	10/07/17 06:33	301-79-56	S3
8260 MSV Low Level SC Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	10000	5000	100		10/09/17 20:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	10.0	100		10/09/17 20:28	994-05-8	
Benzene	2900	ug/L	100	25.0	100		10/09/17 20:28	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	5000	100		10/09/17 20:28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	362	100		10/09/17 20:28	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	189	100		10/09/17 20:28	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	24.0	100		10/09/17 20:28	107-06-2	
Diisopropyl ether	70.9J	ug/L	100	12.0	100		10/09/17 20:28	108-20-3	
Ethanol	ND	ug/L	20000	13100	100		10/09/17 20:28	64-17-5	
Ethylbenzene	2030	ug/L	100	30.0	100		10/09/17 20:28	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	7.0	100		10/09/17 20:28	637-92-3	
Methyl-tert-butyl ether	472	ug/L	100	21.0	100		10/09/17 20:28	1634-04-4	
Naphthalene	467	ug/L	100	24.0	100		10/09/17 20:28	91-20-3	
Toluene	14100	ug/L	100	26.0	100		10/09/17 20:28	108-88-3	
Xylene (Total)	10300	ug/L	100	100	100		10/09/17 20:28	1330-20-7	
m&p-Xylene	6900	ug/L	200	66.0	100		10/09/17 20:28	179601-23-1	
o-Xylene	3390	ug/L	100	23.0	100		10/09/17 20:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		100		10/09/17 20:28	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		100		10/09/17 20:28	17060-07-0	
Toluene-d8 (S)	103	%	70-130		100		10/09/17 20:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

Sample: 03439 RW-10 Lab ID: 92357775017 Collected: 10/03/17 13:00 Received: 10/04/17 13:30 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	10/06/17 13:57	10/07/17 06:53	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	130	%	60-140		1	10/06/17 13:57	10/07/17 06:53	301-79-56	
8260 MSV Low Level SC Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	10000	5000	100		10/09/17 21:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	10.0	100		10/09/17 21:02	994-05-8	
Benzene	2650	ug/L	100	25.0	100		10/09/17 21:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	5000	100		10/09/17 21:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	362	100		10/09/17 21:02	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	189	100		10/09/17 21:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	24.0	100		10/09/17 21:02	107-06-2	
Diisopropyl ether	58.1J	ug/L	100	12.0	100		10/09/17 21:02	108-20-3	
Ethanol	ND	ug/L	20000	13100	100		10/09/17 21:02	64-17-5	
Ethylbenzene	2150	ug/L	100	30.0	100		10/09/17 21:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	7.0	100		10/09/17 21:02	637-92-3	
Methyl-tert-butyl ether	480	ug/L	100	21.0	100		10/09/17 21:02	1634-04-4	
Naphthalene	401	ug/L	100	24.0	100		10/09/17 21:02	91-20-3	
Toluene	10900	ug/L	100	26.0	100		10/09/17 21:02	108-88-3	
Xylene (Total)	11200	ug/L	100	100	100		10/09/17 21:02	1330-20-7	
m&p-Xylene	7480	ug/L	200	66.0	100		10/09/17 21:02	179601-23-1	
o-Xylene	3700	ug/L	100	23.0	100		10/09/17 21:02	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		100		10/09/17 21:02	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		100		10/09/17 21:02	17060-07-0	
Toluene-d8 (S)	105	%	70-130		100		10/09/17 21:02	2037-26-5	

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ANALYTICAL RESULTS

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

Sample: 03439 RW-12 Lab ID: 92357775018 Collected: 10/03/17 13:35 Received: 10/04/17 13:30 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	10/06/17 13:57	10/07/17 07:32	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	118	%	60-140		1	10/06/17 13:57	10/07/17 07:32	301-79-56	
8260 MSV Low Level SC Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	5000	2500	50		10/09/17 21:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	5.0	50		10/09/17 21:20	994-05-8	
Benzene	818	ug/L	50.0	12.5	50		10/09/17 21:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2500	50		10/09/17 21:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	181	50		10/09/17 21:20	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	94.5	50		10/09/17 21:20	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	12.0	50		10/09/17 21:20	107-06-2	
Diisopropyl ether	17.3J	ug/L	50.0	6.0	50		10/09/17 21:20	108-20-3	
Ethanol	ND	ug/L	10000	6550	50		10/09/17 21:20	64-17-5	
Ethylbenzene	1960	ug/L	50.0	15.0	50		10/09/17 21:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	3.5	50		10/09/17 21:20	637-92-3	
Methyl-tert-butyl ether	118	ug/L	50.0	10.5	50		10/09/17 21:20	1634-04-4	
Naphthalene	447	ug/L	50.0	12.0	50		10/09/17 21:20	91-20-3	
Toluene	5810	ug/L	50.0	13.0	50		10/09/17 21:20	108-88-3	
Xylene (Total)	10800	ug/L	50.0	50.0	50		10/09/17 21:20	1330-20-7	
m&p-Xylene	7390	ug/L	100	33.0	50		10/09/17 21:20	179601-23-1	
o-Xylene	3440	ug/L	50.0	11.5	50		10/09/17 21:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		50		10/09/17 21:20	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		50		10/09/17 21:20	17060-07-0	
Toluene-d8 (S)	107	%	70-130		50		10/09/17 21:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

Sample: 03439 RW-13		Lab ID: 92357775019		Collected: 10/03/17 14:08		Received: 10/04/17 13:30		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	10/06/17 13:57	10/07/17 07:52	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	10/06/17 13:57	10/07/17 07:52	301-79-56	
8260 MSV Low Level SC		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	1000	500	10		10/10/17 14:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	1.0	10		10/10/17 14:59	994-05-8	
Benzene	52.6	ug/L	10.0	2.5	10		10/10/17 14:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	500	10		10/10/17 14:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	36.2	10		10/10/17 14:59	75-65-0	
tert-Butyl Formate	ND	ug/L	500	18.9	10		10/10/17 14:59	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	2.4	10		10/10/17 14:59	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	1.2	10		10/10/17 14:59	108-20-3	
Ethanol	ND	ug/L	2000	1310	10		10/10/17 14:59	64-17-5	
Ethylbenzene	230	ug/L	10.0	3.0	10		10/10/17 14:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	0.70	10		10/10/17 14:59	637-92-3	
Methyl-tert-butyl ether	5.1J	ug/L	10.0	2.1	10		10/10/17 14:59	1634-04-4	
Naphthalene	128	ug/L	10.0	2.4	10		10/10/17 14:59	91-20-3	
Toluene	355	ug/L	10.0	2.6	10		10/10/17 14:59	108-88-3	
Xylene (Total)	1480	ug/L	10.0	10.0	10		10/10/17 14:59	1330-20-7	
m&p-Xylene	932	ug/L	20.0	6.6	10		10/10/17 14:59	179601-23-1	
o-Xylene	547	ug/L	10.0	2.3	10		10/10/17 14:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		10		10/10/17 14:59	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		10		10/10/17 14:59	17060-07-0	
Toluene-d8 (S)	109	%	70-130		10		10/10/17 14:59	2037-26-5	

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ANALYTICAL RESULTS

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

Sample: 03439 DMW-1 Lab ID: 92357775020 Collected: 10/03/17 10:03 Received: 10/04/17 13:30 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	10/06/17 13:57	10/07/17 08:12	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	10/06/17 13:57	10/07/17 08:12	301-79-56	
8260 MSV Low Level SC Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/07/17 23:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		10/07/17 23:01	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		10/07/17 23:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/07/17 23:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		10/07/17 23:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/07/17 23:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		10/07/17 23:01	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/07/17 23:01	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/07/17 23:01	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/07/17 23:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/07/17 23:01	637-92-3	
Methyl-tert-butyl ether	0.29J	ug/L	1.0	0.21	1		10/07/17 23:01	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/07/17 23:01	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		10/07/17 23:01	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1.0	1		10/07/17 23:01	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/07/17 23:01	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/07/17 23:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/07/17 23:01	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		10/07/17 23:01	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		10/07/17 23:01	2037-26-5	

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ANALYTICAL RESULTS

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

Sample: 03439 DMW-2 Lab ID: 92357775021 Collected: 10/03/17 11:48 Received: 10/04/17 13:30 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	10/06/17 13:57	10/07/17 08:32	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	10/06/17 13:57	10/07/17 08:32	301-79-56	
8260 MSV Low Level SC Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/07/17 23:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		10/07/17 23:19	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		10/07/17 23:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/07/17 23:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		10/07/17 23:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/07/17 23:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		10/07/17 23:19	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/07/17 23:19	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/07/17 23:19	64-17-5	
Ethylbenzene	7.6	ug/L	1.0	0.30	1		10/07/17 23:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/07/17 23:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/07/17 23:19	1634-04-4	
Naphthalene	3.0	ug/L	1.0	0.24	1		10/07/17 23:19	91-20-3	
Toluene	6.9	ug/L	1.0	0.26	1		10/07/17 23:19	108-88-3	
Xylene (Total)	53.4	ug/L	1.0	1.0	1		10/07/17 23:19	1330-20-7	
m&p-Xylene	34.9	ug/L	2.0	0.66	1		10/07/17 23:19	179601-23-1	
o-Xylene	18.5	ug/L	1.0	0.23	1		10/07/17 23:19	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/07/17 23:19	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		10/07/17 23:19	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		10/07/17 23:19	2037-26-5	

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ANALYTICAL RESULTS

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

Sample: 03439 DMW-4 Lab ID: 92357775022 Collected: 10/03/17 09:42 Received: 10/04/17 13:30 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	0.011	0.011	1	10/06/17 13:57	10/07/17 08:52	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	133	%	60-140		1	10/06/17 13:57	10/07/17 08:52	301-79-56	
8260 MSV Low Level SC Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/07/17 23:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		10/07/17 23:36	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		10/07/17 23:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/07/17 23:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		10/07/17 23:36	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/07/17 23:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		10/07/17 23:36	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/07/17 23:36	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/07/17 23:36	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/07/17 23:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/07/17 23:36	637-92-3	
Methyl-tert-butyl ether	0.28J	ug/L	1.0	0.21	1		10/07/17 23:36	1634-04-4	
Naphthalene	0.85J	ug/L	1.0	0.24	1		10/07/17 23:36	91-20-3	
Toluene	0.90J	ug/L	1.0	0.26	1		10/07/17 23:36	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1.0	1		10/07/17 23:36	1330-20-7	
m&p-Xylene	0.94J	ug/L	2.0	0.66	1		10/07/17 23:36	179601-23-1	
o-Xylene	0.57J	ug/L	1.0	0.23	1		10/07/17 23:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/07/17 23:36	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		10/07/17 23:36	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		10/07/17 23:36	2037-26-5	

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ANALYTICAL RESULTS

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

Sample: 03439 CK-1 Lab ID: 92357775023 Collected: 10/02/17 14:00 Received: 10/04/17 13:30 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	10/06/17 13:58	10/07/17 09:12	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	10/06/17 13:58	10/07/17 09:12	301-79-56	
8260 MSV Low Level SC Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/07/17 23:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		10/07/17 23:53	994-05-8	
Benzene	4.7	ug/L	1.0	0.25	1		10/07/17 23:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/07/17 23:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		10/07/17 23:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/07/17 23:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		10/07/17 23:53	107-06-2	
Diisopropyl ether	0.23J	ug/L	1.0	0.12	1		10/07/17 23:53	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/07/17 23:53	64-17-5	
Ethylbenzene	3.7	ug/L	1.0	0.30	1		10/07/17 23:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/07/17 23:53	637-92-3	
Methyl-tert-butyl ether	5.8	ug/L	1.0	0.21	1		10/07/17 23:53	1634-04-4	
Naphthalene	0.83J	ug/L	1.0	0.24	1		10/07/17 23:53	91-20-3	
Toluene	6.8	ug/L	1.0	0.26	1		10/07/17 23:53	108-88-3	
Xylene (Total)	18.8	ug/L	1.0	1.0	1		10/07/17 23:53	1330-20-7	
m&p-Xylene	14.9	ug/L	2.0	0.66	1		10/07/17 23:53	179601-23-1	
o-Xylene	3.9	ug/L	1.0	0.23	1		10/07/17 23:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/07/17 23:53	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		10/07/17 23:53	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		10/07/17 23:53	2037-26-5	

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ANALYTICAL RESULTS

Project: Hwy 11 Grocery MW

Pace Project No.: 92357775

Sample: 03439 CK-2 Lab ID: 92357775024 Collected: 10/02/17 14:10 Received: 10/04/17 13:30 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	10/06/17 14:29	10/06/17 17:52	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	10/06/17 14:29	10/06/17 17:52	301-79-56	
8260 MSV Low Level SC Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/08/17 00:10	75-85-4	
tert-Amylmethyl ether	1.1J	ug/L	10.0	0.10	1		10/08/17 00:10	994-05-8	
Benzene	17.1	ug/L	1.0	0.25	1		10/08/17 00:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/08/17 00:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		10/08/17 00:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/08/17 00:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		10/08/17 00:10	107-06-2	
Diisopropyl ether	0.79J	ug/L	1.0	0.12	1		10/08/17 00:10	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/08/17 00:10	64-17-5	
Ethylbenzene	14.4	ug/L	1.0	0.30	1		10/08/17 00:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/08/17 00:10	637-92-3	
Methyl-tert-butyl ether	14.4	ug/L	1.0	0.21	1		10/08/17 00:10	1634-04-4	
Naphthalene	3.4	ug/L	1.0	0.24	1		10/08/17 00:10	91-20-3	
Toluene	39.6	ug/L	1.0	0.26	1		10/08/17 00:10	108-88-3	
Xylene (Total)	75.8	ug/L	1.0	1.0	1		10/08/17 00:10	1330-20-7	
m&p-Xylene	59.3	ug/L	2.0	0.66	1		10/08/17 00:10	179601-23-1	
o-Xylene	16.5	ug/L	1.0	0.23	1		10/08/17 00:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		10/08/17 00:10	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		10/08/17 00:10	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		10/08/17 00:10	2037-26-5	

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ANALYTICAL RESULTS

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

Sample: 03439 CK-3 Lab ID: 92357775025 Collected: 10/02/17 14:15 Received: 10/04/17 13:30 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	10/06/17 14:29	10/06/17 18:10	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	85	%	60-140		1	10/06/17 14:29	10/06/17 18:10	301-79-56	
8260 MSV Low Level SC Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/08/17 00:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		10/08/17 00:28	994-05-8	
Benzene	13.0	ug/L	1.0	0.25	1		10/08/17 00:28	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/08/17 00:28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		10/08/17 00:28	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/08/17 00:28	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		10/08/17 00:28	107-06-2	
Diisopropyl ether	0.72J	ug/L	1.0	0.12	1		10/08/17 00:28	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/08/17 00:28	64-17-5	
Ethylbenzene	10.4	ug/L	1.0	0.30	1		10/08/17 00:28	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/08/17 00:28	637-92-3	
Methyl-tert-butyl ether	13.0	ug/L	1.0	0.21	1		10/08/17 00:28	1634-04-4	
Naphthalene	2.9	ug/L	1.0	0.24	1		10/08/17 00:28	91-20-3	
Toluene	27.5	ug/L	1.0	0.26	1		10/08/17 00:28	108-88-3	
Xylene (Total)	58.2	ug/L	1.0	1.0	1		10/08/17 00:28	1330-20-7	
m&p-Xylene	46.0	ug/L	2.0	0.66	1		10/08/17 00:28	179601-23-1	
o-Xylene	12.1	ug/L	1.0	0.23	1		10/08/17 00:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/08/17 00:28	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		10/08/17 00:28	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/08/17 00:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

Sample: 03439 FB-1 Lab ID: 92357775026 Collected: 10/02/17 13:50 Received: 10/04/17 13:30 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	10/06/17 14:29	10/06/17 18:28	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	114	%	60-140		1	10/06/17 14:29	10/06/17 18:28	301-79-56	
8260 MSV Low Level SC Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/07/17 20:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		10/07/17 20:26	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		10/07/17 20:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/07/17 20:26	624-95-3	
tert-Butyl Alcohol	10.5J	ug/L	100	3.6	1		10/07/17 20:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/07/17 20:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		10/07/17 20:26	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/07/17 20:26	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/07/17 20:26	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/07/17 20:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/07/17 20:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/07/17 20:26	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/07/17 20:26	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		10/07/17 20:26	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1.0	1		10/07/17 20:26	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/07/17 20:26	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/07/17 20:26	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		10/07/17 20:26	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		10/07/17 20:26	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/07/17 20:26	2037-26-5	

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ANALYTICAL RESULTS

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

Sample: 03439 FB-2 Lab ID: 92357775027 Collected: 10/03/17 08:00 Received: 10/04/17 13:30 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	10/06/17 14:29	10/06/17 18:46	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	90	%	60-140		1	10/06/17 14:29	10/06/17 18:46	301-79-56	
8260 MSV Low Level SC Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/07/17 20:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		10/07/17 20:43	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		10/07/17 20:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/07/17 20:43	624-95-3	
tert-Butyl Alcohol	15.0J	ug/L	100	3.6	1		10/07/17 20:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/07/17 20:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		10/07/17 20:43	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/07/17 20:43	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/07/17 20:43	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/07/17 20:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/07/17 20:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/07/17 20:43	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/07/17 20:43	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		10/07/17 20:43	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1.0	1		10/07/17 20:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/07/17 20:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/07/17 20:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/07/17 20:43	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		10/07/17 20:43	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/07/17 20:43	2037-26-5	

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QUALITY CONTROL DATA

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

QC Batch: 381226 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92357775003, 92357775004, 92357775007, 92357775008, 92357775009, 92357775010, 92357775012, 92357775020, 92357775021, 92357775022, 92357775023, 92357775024, 92357775025, 92357775026, 92357775027

METHOD BLANK: 2112756 Matrix: Water
Associated Lab Samples: 92357775003, 92357775004, 92357775007, 92357775008, 92357775009, 92357775010, 92357775012, 92357775020, 92357775021, 92357775022, 92357775023, 92357775024, 92357775025, 92357775026, 92357775027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.24	10/07/17 19:34	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	10/07/17 19:34	
Benzene	ug/L	ND	1.0	0.25	10/07/17 19:34	
Diisopropyl ether	ug/L	ND	1.0	0.12	10/07/17 19:34	
Ethanol	ug/L	ND	200	131	10/07/17 19:34	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	10/07/17 19:34	
Ethylbenzene	ug/L	ND	1.0	0.30	10/07/17 19:34	
m&p-Xylene	ug/L	ND	2.0	0.66	10/07/17 19:34	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	10/07/17 19:34	
Naphthalene	ug/L	ND	1.0	0.24	10/07/17 19:34	
o-Xylene	ug/L	ND	1.0	0.23	10/07/17 19:34	
tert-Amyl Alcohol	ug/L	ND	100	50.0	10/07/17 19:34	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	10/07/17 19:34	
tert-Butyl Alcohol	ug/L	ND	100	3.6	10/07/17 19:34	
tert-Butyl Formate	ug/L	ND	50.0	1.9	10/07/17 19:34	
Toluene	ug/L	ND	1.0	0.26	10/07/17 19:34	
Xylene (Total)	ug/L	ND	1.0	1.0	10/07/17 19:34	
1,2-Dichloroethane-d4 (S)	%	97	70-130		10/07/17 19:34	
4-Bromofluorobenzene (S)	%	101	70-130		10/07/17 19:34	
Toluene-d8 (S)	%	108	70-130		10/07/17 19:34	

LABORATORY CONTROL SAMPLE: 2112757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	53.3	107	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	973	97	70-130	
Benzene	ug/L	50	55.0	110	70-130	
Diisopropyl ether	ug/L	50	57.7	115	70-130	
Ethanol	ug/L	2000	2360	118	70-130	
Ethyl-tert-butyl ether	ug/L	100	112	112	70-130	
Ethylbenzene	ug/L	50	50.2	100	70-130	
m&p-Xylene	ug/L	100	98.8	99	70-130	
Methyl-tert-butyl ether	ug/L	50	58.4	117	70-130	
Naphthalene	ug/L	50	56.1	112	70-130	
o-Xylene	ug/L	50	48.6	97	70-130	
tert-Amyl Alcohol	ug/L	1000	1120	112	70-130	

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QUALITY CONTROL DATA

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

LABORATORY CONTROL SAMPLE: 2112757

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Amylmethyl ether	ug/L	100	107	107	70-130	
tert-Butyl Alcohol	ug/L	500	581	116	70-130	
tert-Butyl Formate	ug/L	400	372	93	70-130	
Toluene	ug/L	50	51.8	104	70-130	
Xylene (Total)	ug/L	150	147	98	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2115097

Parameter	Units	92357775003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.6	103	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	383	96	70-130	
Benzene	ug/L	ND	20	20.9	105	70-130	
Diisopropyl ether	ug/L	0.13J	20	20.6	102	70-130	
Ethanol	ug/L	ND	800	1030	129	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	38.9	97	70-130	
Ethylbenzene	ug/L	ND	20	19.8	99	70-130	
m&p-Xylene	ug/L	ND	40	39.6	99	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.5	98	70-130	
Naphthalene	ug/L	ND	20	19.3	96	70-130	
o-Xylene	ug/L	ND	20	19.2	96	70-130	
tert-Amyl Alcohol	ug/L	ND	400	331	83	70-130	
tert-Amylmethyl ether	ug/L	ND	40	33.9	85	70-130	
tert-Butyl Alcohol	ug/L	ND	200	278	139	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	19.9	100	70-130	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				96	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2115098

Parameter	Units	92357775004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	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	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: Hwy 11 Grocery MW

Pace Project No.: 92357775

SAMPLE DUPLICATE: 2115098

Parameter	Units	92357775004 Result	Dup Result	RPD	Max RPD	Qualifiers
Naphthalene	ug/L	ND	ND		30	
o-Xylene	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	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	100	92	8		
4-Bromofluorobenzene (S)	%	99	94	6		
Toluene-d8 (S)	%	107	110	3		

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QUALITY CONTROL DATA

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

QC Batch: 381242 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92357775006, 92357775013

METHOD BLANK: 2112804 Matrix: Water
Associated Lab Samples: 92357775006, 92357775013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.24	10/07/17 19:17	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	10/07/17 19:17	
Benzene	ug/L	ND	1.0	0.25	10/07/17 19:17	
Diisopropyl ether	ug/L	ND	1.0	0.12	10/07/17 19:17	
Ethanol	ug/L	ND	200	131	10/07/17 19:17	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	10/07/17 19:17	
Ethylbenzene	ug/L	ND	1.0	0.30	10/07/17 19:17	
m&p-Xylene	ug/L	ND	2.0	0.66	10/07/17 19:17	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	10/07/17 19:17	
Naphthalene	ug/L	0.26J	1.0	0.24	10/07/17 19:17	
o-Xylene	ug/L	ND	1.0	0.23	10/07/17 19:17	
tert-Amyl Alcohol	ug/L	ND	100	50.0	10/07/17 19:17	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	10/07/17 19:17	
tert-Butyl Alcohol	ug/L	ND	100	3.6	10/07/17 19:17	
tert-Butyl Formate	ug/L	ND	50.0	1.9	10/07/17 19:17	
Toluene	ug/L	ND	1.0	0.26	10/07/17 19:17	
Xylene (Total)	ug/L	ND	1.0	1.0	10/07/17 19:17	
1,2-Dichloroethane-d4 (S)	%	96	70-130		10/07/17 19:17	
4-Bromofluorobenzene (S)	%	99	70-130		10/07/17 19:17	
Toluene-d8 (S)	%	106	70-130		10/07/17 19:17	

LABORATORY CONTROL SAMPLE: 2112805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	54.8	110	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	932	93	70-130	
Benzene	ug/L	50	53.1	106	70-130	
Diisopropyl ether	ug/L	50	58.1	116	70-130	
Ethanol	ug/L	2000	2490	124	70-130	
Ethyl-tert-butyl ether	ug/L	100	114	114	70-130	
Ethylbenzene	ug/L	50	50.4	101	70-130	
m&p-Xylene	ug/L	100	98.2	98	70-130	
Methyl-tert-butyl ether	ug/L	50	56.8	114	70-130	
Naphthalene	ug/L	50	52.3	105	70-130	
o-Xylene	ug/L	50	49.8	100	70-130	
tert-Amyl Alcohol	ug/L	1000	1080	108	70-130	
tert-Amylmethyl ether	ug/L	100	105	105	70-130	
tert-Butyl Alcohol	ug/L	500	610	122	70-130	
tert-Butyl Formate	ug/L	400	377	94	70-130	
Toluene	ug/L	50	51.4	103	70-130	

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QUALITY CONTROL DATA

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

LABORATORY CONTROL SAMPLE: 2112805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	148	99	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2112807

Parameter	Units	92357348004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	17.0	85	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	281	70	70-130	
Benzene	ug/L	ND	20	17.3	87	70-130	
Diisopropyl ether	ug/L	ND	20	16.9	85	70-130	
Ethanol	ug/L	ND	800	742	93	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	30.8	77	70-130	
Ethylbenzene	ug/L	ND	20	15.6	78	70-130	
m&p-Xylene	ug/L	ND	40	30.4	76	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	14.8	74	70-130	
Naphthalene	ug/L	ND	20	15.1	76	70-130	
o-Xylene	ug/L	ND	20	15.1	76	70-130	
tert-Amyl Alcohol	ug/L	ND	400	261	65	70-130	M1
tert-Amylmethyl ether	ug/L	ND	40	28.3	71	70-130	
tert-Butyl Alcohol	ug/L	ND	200	222	111	70-130	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	P5
Toluene	ug/L	ND	20	16.4	82	70-130	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				96	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2112806

Parameter	Units	92357348003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	1.0	0.94J		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	0.48J	0.49J		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: Hwy 11 Grocery MW

Pace Project No.: 92357775

SAMPLE DUPLICATE: 2112806

Parameter	Units	92357348003 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	101	100	1		
4-Bromofluorobenzene (S)	%	100	94	6		
Toluene-d8 (S)	%	108	108	0		

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QUALITY CONTROL DATA

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

QC Batch: 381551 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92357775001, 92357775002, 92357775011, 92357775014, 92357775015, 92357775016, 92357775017, 92357775018

METHOD BLANK: 2114472 Matrix: Water
Associated Lab Samples: 92357775001, 92357775002, 92357775011, 92357775014, 92357775015, 92357775016, 92357775017, 92357775018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.24	10/09/17 15:51	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	10/09/17 15:51	
Benzene	ug/L	ND	1.0	0.25	10/09/17 15:51	
Diisopropyl ether	ug/L	ND	1.0	0.12	10/09/17 15:51	
Ethanol	ug/L	ND	200	131	10/09/17 15:51	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	10/09/17 15:51	
Ethylbenzene	ug/L	ND	1.0	0.30	10/09/17 15:51	
m&p-Xylene	ug/L	ND	2.0	0.66	10/09/17 15:51	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	10/09/17 15:51	
Naphthalene	ug/L	ND	1.0	0.24	10/09/17 15:51	
o-Xylene	ug/L	ND	1.0	0.23	10/09/17 15:51	
tert-Amyl Alcohol	ug/L	ND	100	50.0	10/09/17 15:51	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	10/09/17 15:51	
tert-Butyl Alcohol	ug/L	ND	100	3.6	10/09/17 15:51	
tert-Butyl Formate	ug/L	ND	50.0	1.9	10/09/17 15:51	
Toluene	ug/L	ND	1.0	0.26	10/09/17 15:51	
Xylene (Total)	ug/L	ND	1.0	1.0	10/09/17 15:51	
1,2-Dichloroethane-d4 (S)	%	100	70-130		10/09/17 15:51	
4-Bromofluorobenzene (S)	%	93	70-130		10/09/17 15:51	
Toluene-d8 (S)	%	105	70-130		10/09/17 15:51	

LABORATORY CONTROL SAMPLE: 2114473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.5	91	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	971	97	70-130	
Benzene	ug/L	50	47.9	96	70-130	
Diisopropyl ether	ug/L	50	50.5	101	70-130	
Ethanol	ug/L	2000	2070	104	70-130	
Ethyl-tert-butyl ether	ug/L	100	97.0	97	70-130	
Ethylbenzene	ug/L	50	44.7	89	70-130	
m&p-Xylene	ug/L	100	88.2	88	70-130	
Methyl-tert-butyl ether	ug/L	50	47.8	96	70-130	
Naphthalene	ug/L	50	51.7	103	70-130	
o-Xylene	ug/L	50	44.3	89	70-130	
tert-Amyl Alcohol	ug/L	1000	942	94	70-130	
tert-Amylmethyl ether	ug/L	100	91.3	91	70-130	
tert-Butyl Alcohol	ug/L	500	506	101	70-130	

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QUALITY CONTROL DATA

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

LABORATORY CONTROL SAMPLE: 2114473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	327	82	70-130	
Toluene	ug/L	50	43.7	87	70-130	
Xylene (Total)	ug/L	150	133	88	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE SAMPLE: 2114474

Parameter	Units	92357775014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	2000	1940	97	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	40000	36700	92	70-130	
Benzene	ug/L	2440	2000	4700	113	70-130	
Diisopropyl ether	ug/L	213	2000	2300	104	70-130	
Ethanol	ug/L	ND	80000	69100	86	70-130	
Ethyl-tert-butyl ether	ug/L	ND	4000	3830	96	70-130	
Ethylbenzene	ug/L	1060	2000	3080	101	70-130	
m&p-Xylene	ug/L	4190	4000	8080	97	70-130	
Methyl-tert-butyl ether	ug/L	10200	2000	13800	182	70-130	M1
Naphthalene	ug/L	274	2000	2220	97	70-130	
o-Xylene	ug/L	2020	2000	3930	96	70-130	
tert-Amyl Alcohol	ug/L	ND	40000	37200	93	70-130	
tert-Amylmethyl ether	ug/L	367J	4000	4090	93	70-130	
tert-Butyl Alcohol	ug/L	2690J	20000	22100	97	70-130	
tert-Butyl Formate	ug/L	ND	16000	13600	85	70-130	
Toluene	ug/L	9230	2000	10900	84	70-130	
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 2114475

Parameter	Units	92357775016 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	2900	2870	1	30	
Diisopropyl ether	ug/L	70.9J	75.2J		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	2030	2050	1	30	
m&p-Xylene	ug/L	6900	6880	0	30	
Methyl-tert-butyl ether	ug/L	472	497	5	30	
Naphthalene	ug/L	467	393	17	30	
o-Xylene	ug/L	3390	3470	2	30	

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QUALITY CONTROL DATA

Project: Hwy 11 Grocery MW

Pace Project No.: 92357775

SAMPLE DUPLICATE: 2114475

Parameter	Units	92357775016 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	100J		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	14100	14100	0	30	
Xylene (Total)	ug/L	10300	10400	1	30	
1,2-Dichloroethane-d4 (S)	%	98	98	0		
4-Bromofluorobenzene (S)	%	95	96	1		
Toluene-d8 (S)	%	103	103	0		

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QUALITY CONTROL DATA

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

QC Batch: 381690 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC
Associated Lab Samples: 92357775005, 92357775019

METHOD BLANK: 2115227 Matrix: Water
Associated Lab Samples: 92357775005, 92357775019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.24	10/10/17 12:07	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	10/10/17 12:07	
Benzene	ug/L	ND	1.0	0.25	10/10/17 12:07	
Diisopropyl ether	ug/L	ND	1.0	0.12	10/10/17 12:07	
Ethanol	ug/L	ND	200	131	10/10/17 12:07	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	10/10/17 12:07	
Ethylbenzene	ug/L	ND	1.0	0.30	10/10/17 12:07	
m&p-Xylene	ug/L	ND	2.0	0.66	10/10/17 12:07	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	10/10/17 12:07	
Naphthalene	ug/L	ND	1.0	0.24	10/10/17 12:07	
o-Xylene	ug/L	ND	1.0	0.23	10/10/17 12:07	
tert-Amyl Alcohol	ug/L	ND	100	50.0	10/10/17 12:07	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	10/10/17 12:07	
tert-Butyl Alcohol	ug/L	ND	100	3.6	10/10/17 12:07	
tert-Butyl Formate	ug/L	ND	50.0	1.9	10/10/17 12:07	
Toluene	ug/L	ND	1.0	0.26	10/10/17 12:07	
Xylene (Total)	ug/L	ND	1.0	1.0	10/10/17 12:07	
1,2-Dichloroethane-d4 (S)	%	92	70-130		10/10/17 12:07	
4-Bromofluorobenzene (S)	%	106	70-130		10/10/17 12:07	
Toluene-d8 (S)	%	109	70-130		10/10/17 12:07	

LABORATORY CONTROL SAMPLE: 2115228

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	48.6	97	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1000	100	70-130	
Benzene	ug/L	50	51.7	103	70-130	
Diisopropyl ether	ug/L	50	53.5	107	70-130	
Ethanol	ug/L	2000	2380	119	70-130	
Ethyl-tert-butyl ether	ug/L	100	102	102	70-130	
Ethylbenzene	ug/L	50	50.6	101	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	59.0	118	70-130	
Naphthalene	ug/L	50	51.8	104	70-130	
o-Xylene	ug/L	50	51.6	103	70-130	
tert-Amyl Alcohol	ug/L	1000	910	91	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	467	93	70-130	
tert-Butyl Formate	ug/L	400	458	114	70-130	
Toluene	ug/L	50	47.1	94	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

LABORATORY CONTROL SAMPLE: 2115228

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2115229 2115230

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92357753003 Result	Spike Conc.	Spike Conc.	Conc.								
1,2-Dichloroethane	ug/L	ND	2000	2000	2140	2230	107	111	70-130	4	30		
3,3-Dimethyl-1-Butanol	ug/L	ND	40000	40000	44700	45400	112	113	70-130	2	30		
Benzene	ug/L	ND	2000	2000	2190	2280	110	114	70-130	4	30		
Diisopropyl ether	ug/L	ND	2000	2000	2260	2250	113	112	70-130	0	30		
Ethanol	ug/L	ND	80000	80000	117000	93400	147	117	70-130	23	30	M1	
Ethyl-tert-butyl ether	ug/L	ND	4000	4000	4010	4090	100	102	70-130	2	30		
Ethylbenzene	ug/L	4290	2000	2000	6270	6380	99	105	70-130	2	30		
m&p-Xylene	ug/L	17600	4000	4000	22500	21800	121	103	70-130	3	30		
Methyl-tert-butyl ether	ug/L	ND	2000	2000	2290	2250	114	112	70-130	2	30		
Naphthalene	ug/L	586	2000	2000	2620	2420	101	92	70-130	8	30		
o-Xylene	ug/L	7780	2000	2000	9950	9550	108	89	70-130	4	30		
tert-Amyl Alcohol	ug/L	ND	40000	40000	42200	38300	106	96	70-130	10	30		
tert-Amylmethyl ether	ug/L	ND	4000	4000	3930	3940	98	98	70-130	0	30		
tert-Butyl Alcohol	ug/L	ND	20000	20000	21300	20000	106	100	70-130	6	30		
tert-Butyl Formate	ug/L	ND	16000	16000	17000	16900	106	106	70-130	0	30		
Toluene	ug/L	15600	2000	2000	15700	15700	2	4	70-130	0	30	M1	
1,2-Dichloroethane-d4 (S)	%						106	110	70-130				
4-Bromofluorobenzene (S)	%						100	102	70-130				
Toluene-d8 (S)	%						101	100	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

QC Batch: 381010 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92357775001, 92357775002, 92357775003

METHOD BLANK: 2111285 Matrix: Water
Associated Lab Samples: 92357775001, 92357775002, 92357775003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	10/06/17 00:28	
1-Chloro-2-bromopropane (S)	%	121	60-140		10/06/17 00:28	

LABORATORY CONTROL SAMPLE & LCSD: 2111286

Parameter	Units	2111287		LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result						
1,2-Dibromoethane (EDB)	ug/L	.25	0.23	91	91	60-140	5	20	
1-Chloro-2-bromopropane (S)	%			98	97	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2111288

Parameter	Units	2111289		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.							
1,2-Dibromoethane (EDB)	ug/L	ND	.24	0.22	0.22	89	91	60-140	3	20
1-Chloro-2-bromopropane (S)	%			97	99	60-140				

SAMPLE DUPLICATE: 2111290

Parameter	Units	92357733006 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	100	107	6		

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QUALITY CONTROL DATA

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

QC Batch: 381157 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92357775005, 92357775006, 92357775007, 92357775008, 92357775009, 92357775010, 92357775011, 92357775012, 92357775013, 92357775014, 92357775015, 92357775016, 92357775017, 92357775018, 92357775019, 92357775020, 92357775021, 92357775022, 92357775023

METHOD BLANK: 2112288 Matrix: Water
Associated Lab Samples: 92357775005, 92357775006, 92357775007, 92357775008, 92357775009, 92357775010, 92357775011, 92357775012, 92357775013, 92357775014, 92357775015, 92357775016, 92357775017, 92357775018, 92357775019, 92357775020, 92357775021, 92357775022, 92357775023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	10/07/17 00:55	
1-Chloro-2-bromopropane (S)	%	115	60-140		10/07/17 00:55	

LABORATORY CONTROL SAMPLE & LCSD: 2112289 2112290

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.26	0.25	105	103	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				113	106	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2112291 2112292

Parameter	Units	92357775009 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	.24	.24	0.24	0.26	101	107	60-140	7	20	
1-Chloro-2-bromopropane (S)	%						103	105	60-140			

SAMPLE DUPLICATE: 2112293

Parameter	Units	92357775017 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	130	121	8		

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QUALITY CONTROL DATA

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

QC Batch: 381199 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92357775024, 92357775025, 92357775026, 92357775027

METHOD BLANK: 2112476 Matrix: Water
Associated Lab Samples: 92357775024, 92357775025, 92357775026, 92357775027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	10/06/17 16:39	
1-Chloro-2-bromopropane (S)	%	108	60-140		10/06/17 16:39	

LABORATORY CONTROL SAMPLE & LCSD: 2112477 2112478

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.31	0.26	126	107	60-140	19	20	
1-Chloro-2-bromopropane (S)	%				137	98	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2112479 2112480

Parameter	Units	92357955001 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	0.42	.24	.24	0.67	0.63	107	91	60-140	6	20	
1-Chloro-2-bromopropane (S)	%						104	97	60-140			

SAMPLE DUPLICATE: 2112481

Parameter	Units	92357955010 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.027	0.043	45	20	D6
1-Chloro-2-bromopropane (S)	%	108	101	8		

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QUALITY CONTROL DATA

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

QC Batch: 381505 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92357775004

METHOD BLANK: 2114187 Matrix: Water
Associated Lab Samples: 92357775004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	0.019	10/09/17 16:54	
1-Chloro-2-bromopropane (S)	%	119	60-140		10/09/17 16:54	

LABORATORY CONTROL SAMPLE & LCSD: 2114188 2114189

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.24	0.24	0.23	98	94	60-140	4	20	
1-Chloro-2-bromopropane (S)	%				134	110	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2114190 2114191

Parameter	Units	92358042003 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	.24	.24	0.24	0.25	101	105	60-140	4	20	
1-Chloro-2-bromopropane (S)	%						105	108	60-140			

SAMPLE DUPLICATE: 2114192

Parameter	Units	92358042005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	100	109	9		

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QUALIFIERS

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

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.

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

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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.

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92357775001	03439 MW-1	EPA 8011	381010	EPA 8011	381063
92357775002	03439 MW-1 Dup	EPA 8011	381010	EPA 8011	381063
92357775003	03439 MW-2	EPA 8011	381010	EPA 8011	381063
92357775004	03439 MW-3	EPA 8011	381505	EPA 8011	381549
92357775005	03439 MW-4	EPA 8011	381157	EPA 8011	381258
92357775006	03439 MW-8	EPA 8011	381157	EPA 8011	381258
92357775007	03439 MW-9	EPA 8011	381157	EPA 8011	381258
92357775008	03439 MW-11	EPA 8011	381157	EPA 8011	381258
92357775009	03439 MW-12	EPA 8011	381157	EPA 8011	381258
92357775010	03439 MW-13	EPA 8011	381157	EPA 8011	381258
92357775011	03439 MW-14	EPA 8011	381157	EPA 8011	381258
92357775012	03439 MW-15	EPA 8011	381157	EPA 8011	381258
92357775013	03439 RW-1	EPA 8011	381157	EPA 8011	381258
92357775014	03439 RW-1 Dup	EPA 8011	381157	EPA 8011	381258
92357775015	03439 RW-4	EPA 8011	381157	EPA 8011	381258
92357775016	03439 RW-8	EPA 8011	381157	EPA 8011	381258
92357775017	03439 RW-10	EPA 8011	381157	EPA 8011	381258
92357775018	03439 RW-12	EPA 8011	381157	EPA 8011	381258
92357775019	03439 RW-13	EPA 8011	381157	EPA 8011	381258
92357775020	03439 DMW-1	EPA 8011	381157	EPA 8011	381258
92357775021	03439 DMW-2	EPA 8011	381157	EPA 8011	381258
92357775022	03439 DMW-4	EPA 8011	381157	EPA 8011	381258
92357775023	03439 CK-1	EPA 8011	381157	EPA 8011	381258
92357775024	03439 CK-2	EPA 8011	381199	EPA 8011	381263
92357775025	03439 CK-3	EPA 8011	381199	EPA 8011	381263
92357775026	03439 FB-1	EPA 8011	381199	EPA 8011	381263
92357775027	03439 FB-2	EPA 8011	381199	EPA 8011	381263
92357775001	03439 MW-1	EPA 8260	381551		
92357775002	03439 MW-1 Dup	EPA 8260	381551		
92357775003	03439 MW-2	EPA 8260	381226		
92357775004	03439 MW-3	EPA 8260	381226		
92357775005	03439 MW-4	EPA 8260	381690		
92357775006	03439 MW-8	EPA 8260	381242		
92357775007	03439 MW-9	EPA 8260	381226		
92357775008	03439 MW-11	EPA 8260	381226		
92357775009	03439 MW-12	EPA 8260	381226		
92357775010	03439 MW-13	EPA 8260	381226		
92357775011	03439 MW-14	EPA 8260	381551		
92357775012	03439 MW-15	EPA 8260	381226		
92357775013	03439 RW-1	EPA 8260	381242		
92357775014	03439 RW-1 Dup	EPA 8260	381551		
92357775015	03439 RW-4	EPA 8260	381551		
92357775016	03439 RW-8	EPA 8260	381551		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hwy 11 Grocery MW
Pace Project No.: 92357775

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92357775017	03439 RW-10	EPA 8260	381551		
92357775018	03439 RW-12	EPA 8260	381551		
92357775019	03439 RW-13	EPA 8260	381690		
92357775020	03439 DMW-1	EPA 8260	381226		
92357775021	03439 DMW-2	EPA 8260	381226		
92357775022	03439 DMW-4	EPA 8260	381226		
92357775023	03439 CK-1	EPA 8260	381226		
92357775024	03439 CK-2	EPA 8260	381226		
92357775025	03439 CK-3	EPA 8260	381226		
92357775026	03439 FB-1	EPA 8260	381226		
92357775027	03439 FB-2	EPA 8260	381226		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name: Bunnell-Lammons Eng Project

WO# : 92357775



Courier: Commercial Fed Ex Pace UPS USPS Other: Client

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 10-4-17 AC

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 5 Type of Ice: Wet Blue None

Yes No N/A

Correction Factor: Cooler Temp Corrected (°C): 4.4

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)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Yes No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9. <u>no trip blank sent</u>
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Field Data Required? Yes No

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____

Comments/Sample Discrepancy: _____

Project Manager SCURF Review: TC

Date: 10/11/17

Project Manager SRF Review: TC

Date: 10/11/17

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)



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.03

Document Revised: July 25, 2017
 Page 2 of 2 **2 of 4**
 Issuing Authority:
 Pace Quality Office

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

Project #

WO# : 92357775

PM: RWC

Due Date: 10/11/17

CLIENT: 92-BLE

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)	BP3Z-250 mL Plastic Zn Acetate & NaOH (>9)	BP3C-250 mL Plastic NaOH (pH > 12) (Cl-)	WGJU-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)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN		
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6													
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6													
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6													
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6													
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6													
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6													
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6													
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6													
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6													
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6													
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6													
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6													

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 #



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.03

Document Revised: July 25, 2017
 Page 2 of 2 **3014**
 Issuing Authority:
 Pace Quality Office

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

Project #

**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)	BP3Z-250 mL Plastic ZN Acetate & NaOH (>9)	BP3C-250 mL Plastic NaOH (pH > 12) (Cl-)	WGFLU-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)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6												
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6												
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6												
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6												
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6												
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6												
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6												
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6												
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6												
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6												
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6												
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6												

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 #



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.03

Document Revised: July 25, 2017
 Page 2 of 2 - 404
 Issuing Authority:
 Pace Quality Office

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

Project #

**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)	BP3Z-250 mL Plastic ZN Acetate & NaOH (>9)	BP3C-250 mL Plastic NaOH (pH > 12) (Cl-)	WGJU-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)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
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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 #

Intra-Regional Chain of Custody



Workorder: 92357775 Workorder Name: Hwy 11 Grocery MW Owner Received Date: 10/4/2017 Due Date: 10/11/2017

Received at: Pace Analytical Asheville
 2225 Riverside Dr.
 Asheville, NC 28804
 Phone (704)875-9092

Send To Lab: Pace Analytical Charlotte
 9800 Kincey Ave, Suite 100
 Huntersville, NC 28078
 Phone (704)875-9092

Report To:
 Trey Carter

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	HCL	Preserved Containers				Requested Analysis				LAB USE ONLY
							EPA 5260	EPA 8011							
1	03439 MW-1	PS	10/2/2017 16:04	92357775001	Water	6	X	X							
2	03439 MW-1 Dup	PS	10/2/2017 16:05	92357775002	Water	6	X	X							
3	03439 MW-2	PS	10/2/2017 15:18	92357775003	Water	6	X	X							
4	03439 MW-3	PS	10/2/2017 14:46	92357775004	Water	6	X	X							
5	03439 MW-4	PS	10/3/2017 10:53	92357775005	Water	6	X	X							
6	03439 MW-8	PS	10/3/2017 12:32	92357775006	Water	6	X	X							
7	03439 MW-9	PS	10/3/2017 14:35	92357775007	Water	6	X	X							
8	03439 MW-11	PS	10/3/2017 11:18	92357775008	Water	6	X	X							
9	03439 MW-12	PS	10/3/2017 15:37	92357775009	Water	6	X	X							
10	03439 MW-13	PS	10/2/2017 16:40	92357775010	Water	6	X	X							
11	03439 MW-14	PS	10/3/2017 15:05	92357775011	Water	6	X	X							
12	03439 MW-15	PS	10/2/2017 16:22	92357775012	Water	6	X	X							
13	03439 RW-1	PS	10/3/2017 09:12	92357775013	Water	6	X	X							
14	03439 RW-1 Dup	PS	10/3/2017 09:13	92357775014	Water	6	X	X							
15	03439 RW-4	PS	10/3/2017 10:27	92357775015	Water	6	X	X							
16	03439 RW-8	PS	10/3/2017 12:13	92357775016	Water	6	X	X							
17	03439 RW-10	PS	10/3/2017 13:00	92357775017	Water	6	X	X							
18	03439 RW-12	PS	10/3/2017 13:35	92357775018	Water	6	X	X							
19	03439 RW-13	PS	10/3/2017 14:08	92357775019	Water	6	X	X							

Intra-Regional Chain of Custody



Workorder: 92357775 Workorder Name: Hwy 11 Grocery MW

Owner Received Date: 10/4/2017 Due Date: 10/11/2017

Received at: Pace Analytical Asheville
 2225 Riverside Dr.
 Asheville, NC 28804
 Phone (704)875-9092

Send To Lab: Pace Analytical Charlotte
 9800 Kinsey Ave. Suite 100
 Huntersville, NC 28078
 Phone (704)875-9092

Report To: Trey Carter

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		Requested Analysis	LAB USE ONLY
						EPA 8260	EPA 8011		
20	03439 DMW-1	PS	10/3/2017 10:03	92357775020	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
21	03439 DMW-2	PS	10/3/2017 11:48	92357775021	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
22	03439 DMW-4	PS	10/3/2017 09:42	92357775022	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
23	03439 CK-1	PS	10/2/2017 14:00	92357775023	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
24	03439 CK-2	PS	10/2/2017 14:10	92357775024	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
25	03439 CK-3	PS	10/2/2017 14:15	92357775025	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
26	03439 FB-1	PS	10/2/2017 13:50	92357775026	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
27	03439 FB-2	PS	10/3/2017 08:00	92357775027	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

Transfers	Released By	Date/Time	Received By	Date/Time	Cooler Temperature on Receipt	°C	Custody Seal	Y or N	Received on Ice	Y or N	Samples Intact	Y or N
1	A. WILSON	10-4-17 10:00	[Signature]	10/4/17 9:25	31		Y				Y	
2	[Signature]	10/4/17 23:50	[Signature]	10/4/17 21:25								
3												
4												

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

APPENDIX D
CONTRACTOR CHECKLIST

Contractor Checklist

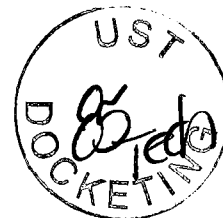
For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, 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?	✓		
2	Is UST Owner/Operator name, address, & phone number provided?	✓		
3	Is name, address, & phone number of current property owner provided?	✓		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	✓		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			✓
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	✓		
7	Has the facility history been summarized?	✓		
8	Has the regional geology and hydrogeology been described?			✓
9	Are the receptor survey results provided as required?			✓
10	Has current use of the site and adjacent land been described?	✓		
11	Has the site-specific geology and hydrogeology been described?			✓
12	Has the primary soil type been described?			✓
13	Have field screening results been described?			✓
14	Has a description of the soil sample collection and preservation been detailed?			✓
15	Has the field screening methodology and procedure been detailed?			✓
16	Has the monitoring well installation and development dates been provided?			✓
17	Has the method of well development been detailed?			✓
18	Has justification been provided for the locations of the monitoring wells?			✓
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			✓
20	Has the groundwater sampling methodology been detailed?	✓		
21	Have the groundwater sampling dates and groundwater measurements been provided?	✓		
22	Has the purging methodology been detailed?	✓		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	✓		
24	If free-product is present, has the thickness been provided?	✓		
25	Does the report include a brief discussion of the assessment done and the results?	✓		
26	Does the report include a brief discussion of the aquifer evaluation and results?	✓		
27	Does the report include a brief discussion of the fate & transport models used?			✓

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



FEB 16 2018



STEVE SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: **Aggressive Fluid and Vapor Recovery Directive**
Hwy 11 Grocery, 13527 N Hwy 11, Salem, SC
UST Permit #03439; CA #56339
Release reported November 28, 2000
Monitoring report received December 27, 2017
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) recognizes your commitment to continue work at this site using Bunnell-Lammons Engineering, Inc. as your contractor.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, three back-to-back Aggressive Fluid and Vapor Recovery (AFVR) event may proceed immediately upon receipt of this letter as outlined in this directive and the UST Quality Assurance Program Plan (QAPP) Revision 3.1. **Please be aware that the AFVR Procedures have been updated.** One 96-hour event should be performed utilizing wells MW-1, RW-1, and RW-2. The second 96-hour event should be performed utilizing wells MW-8, RW-7, and RW-8. The third 96-hour event should be performed utilizing wells MW-8, RW-11, and RW-12. The stinger shall be lowered at six inch intervals starting at the water table interface to a target depth of 25 feet in the wells. Please advance to the target depth within the first eight (8) hours of the event. Thereafter, the stingers should be adjusted to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary. A copy of the DHEC QAPP Revision 3.1 for the Underground Storage Tank Division is available at <http://www.scdhec.gov/environment/PermitCentral/ApplicationForms/#UST>.

As soon as the beginning date of the event has been scheduled, please contact Adam Looper at Looperam@dhec.sc.gov.

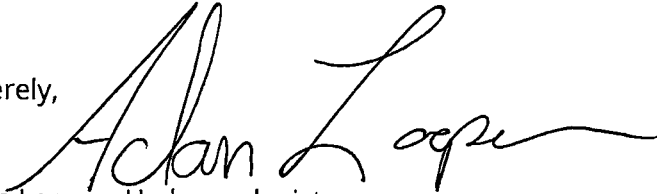
The AFVR Report should be submitted within 90 days from the date of this correspondence. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

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 is obtained from the UST Management Division. If for any reason additional tasks will be completed, these additional tasks and the associated cost

must be preapproved by DHEC for the cost to be paid. DHEC 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, DHEC 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.

On all correspondence concerning this site, please reference UST Permit #03439. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0631, by fax at (803) 898-0673, or by e-mail at Looperam@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink that reads "Adam Looper". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

Adam Looper, Hydrogeologist
Corrective Action and Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville SC 29615 (w/enc.)
Technical file (w/enc.)

Approved Cost Agreement

56339

Facility: 03439 HWY 11 GROCERY

LOOPERAM

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
19 RPT/PROJECT MNGT & COORDINATIO		PRT REPORT PREPARATION	0.1200	\$63,420.250	7,610.43
23 EFR		A4 96 HOUR EVENT	3.0000	\$12,567.500	37,702.50
		C4 OFF GAS TREATMENT 96 HOUR	3.0000	\$780.000	2,340.00
		D SITE RECONNAISSANCE	1.0000	\$203.250	203.25
		F1 EFFLUENT DISPOSAL	50,000.0000	\$0.440	22,000.00
		G AFVR EQUIPMENT MOB	3.0000	\$391.500	1,174.50
Total Amount					71,030.68

Document Receipt Information

Hard Copy

CD

Email

Date Received

5-18-18

Permit Number

03439

Project Manager

Adam Loojer

Name of Contractor

BLE

UST Certification Number

86 Tech

Docket Number

Scanned

GWM / Multi AFVR



BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF MULTIPLE 96-HOUR AGGRESSIVE FLUID VAPOR RECOVERY EVENTS

**HIGHWAY 11 GROCERY
13527 NORTH HIGHWAY 11, SALEM
SALEM, OCONEE COUNTY, SOUTH CAROLINA
UST PERMIT #03439; COST AGREEMENT #56339**

Prepared For

**Steve Smith
180 Shallow Ford Road
Salem, South Carolina 29676**

Prepared By

**Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, South Carolina 29615
SCDHEC Certified Contractor No. UCC-0010**

May 15, 2018

BLE Project Number J18-10768-03



BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

May 15, 2018

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
Underground Storage Tank Division
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Adam Looper
Hydrogeologist

Subject: **Report of Multiple 96-Hour Aggressive Fluid Vapor Recovery Events
Highway 11 Grocery
13527 North Highway 11
Salem, Oconee County, South Carolina
UST Permit 03439; Cost Agreement #56339
BLE Project No. J18-10768-03**

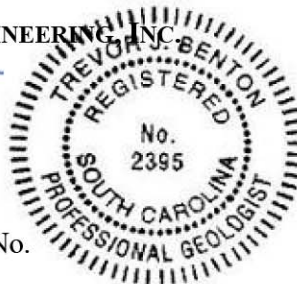
Dear Mr. Looper:

On behalf of Mr. Steve Smith, Bunnell-Lammons Engineering, Inc. (BLE) has completed a series of three 96-hour Aggressive Fluid Vapor Recovery (AFVR) events at the subject site. This scope of work was performed pursuant to a South Carolina Department of Health and Environmental Control (SCDHEC) directive dated February 16, 2018. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

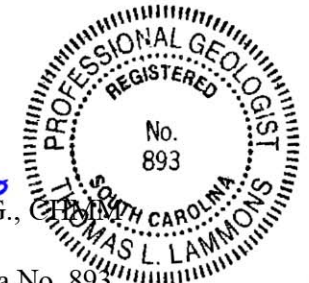
Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Senior Hydrogeologist
Registered, South Carolina No.



Thomas L. Lammons, P.G., C.P.E.M.
Principal Hydrogeologist
Registered, South Carolina No. 893



cc: Mr. Steve Smith, 180 Shallow Ford Road, Salem, South Carolina 29676



SITE INFORMATION

Facility Identification:

Facility Name Highway 11 Grocery
UST Permit Number 03439
Facility Address 13527 North Highway 11
Salem, Oconee County, South Carolina

Release Information:

Release #	Date Reported	Quantity	Type	Cause	Status
1	November 28, 2000	Unknown	Unknown	Unknown	Open

Responsible Party:

Name Jocassee Recreation Center, LLC
Address P.O. Box 878
Pickens, South Carolina 29671-0878

Property Owner Information:

Name Jocassee Recreation Center, LLC
Address P.O. Box 878
Pickens, South Carolina 29671-0878

Current Site Use: Former fueling station and current grocery/convenience store

UST Site Rehabilitation Contractor:

Name Bunnell-Lammons Engineering, Inc.
Address 6004 Ponders Court
Greenville, South Carolina 29615
Phone (864) 288-1265
Certification Number UCC-0010



UST System Summary:

UST #	Size (Gallons)	Product	Currently in use (Yes or No)	If not in use, Date Removed
1	6,000	Gasoline	No	Removed – August 2009
2	6,000	Gasoline	No	Removed – August 2009
3	3,000	Gasoline	No	Removed – August 2009
4	2,000	Diesel	No	Removed – August 2009

AGGRESSIVE FLUID VAPOR RECOVERY EVENTS

On March 23, 2018, BLE personnel performed a reconnaissance of the site to verify accessibility and identify the wells targeted for the AFVR event. From March 26 through April 11, 2018, Landprobe Drilling Services (Landprobe) of Greenville, South Carolina mobilized to the site to perform three 96-hour AFVR events. A site location and well location plan for the AFVR events is provided in the attached figures (Figure 1 and Figure 2). The summary of the AFVR events is provided below.

AFVR Event #1 – March 26-30, 2018

AFVR Well(s)	MW-01, RW-01, and RW-02
Gauged Well(s)	MW-02 and RW-03
Free-Product Thickness Pre-AFVR Event	0.26-feet in RW-02
Free-Product Thickness Post-AFVR Event	None Detected
Length of AFVR Event	96 hours
Total Volume of Liquid Removed	9,421 gallons
Volume of Free-Product in Holding Tank	0.0 gallons



Total Pounds of Free-Product Recovered (Vapor)	25.8 pounds
Total Gallons of Free-Product Recovered (Vapor)	3.6 gallons
General Weather Conditions	03/26/18 - Clear, Average 46°F 03/27/18 - Clear, Average 48°F 03/28/18 - Clear, Average 60°F 03/29/18 - Clear with Rain, Average 64°F 03/30/18 - Clear with Rain, Average 61°F

Pertinent data collected throughout the AFVR event is included in Table 1 and shown on Figure 2. Waste transportation and disposal records for this AFVR event are provided in Appendix A.

AFVR Event #2 – April 2-6, 2018

AFVR Well(s)	MW-08, RW-07, and RW-08
Gauged Well(s)	RW-06 and RW-10
Free-Product Thickness Pre-AFVR Event	0.01-feet in MW-08, and 0.78-feet in RW-07
Free-Product Thickness Post-AFVR Event	None Detected
Length of AFVR Event	96 hours
Total Volume of Liquid Removed	8,899 gallons
Volume of Free-Product in Holding Tank	1.0 gallons
Total Pounds of Free-Product Recovered (Vapor)	148.1 pounds
Total Gallons of Free-Product Recovered (Vapor)	20.5 gallons
General Weather Conditions	04/02/18 - Clear, Average 67°F 04/03/18 - Clear, Average 64°F 04/04/18 - Clear with Rain, Average 60°F 04/05/18 - Clear, Average 50°F 04/06/18 - Clear, Average 56°F



Pertinent data collected throughout the AFVR event is included in Table 2 and shown on Figure 2.

Waste transportation and disposal records for this AFVR event are provided in Appendix A.

AFVR Event #3 – April 9-13, 2018

AFVR Well(s)	MW-08, RW-11, and RW-12
Gauged Well(s)	RW-10 and RW-13
Free-Product Thickness Pre-AFVR Event	0.04-feet in RW-11
Free-Product Thickness Post-AFVR Event	None Detected
Length of AFVR Event	96 hours
Total Volume of Liquid Removed	12,894 gallons
Volume of Free-Product in Holding Tank	0.0 gallons
Total Pounds of Free-Product Recovered (Vapor)	95.0 pounds
Total Gallons of Free-Product Recovered (Vapor)	13.1 gallons
General Weather Conditions	04/09/18 - Clear with Rain, Average 48°F 04/10/18 - Clear, Average 55°F 04/11/18 - Clear, Average 54°F 04/12/18 - Clear, Average 58°F 04/13/18 - Clear, Average 64°F

Pertinent data collected throughout the AFVR event is included in Table 3 and shown on Figure 2.

Waste transportation and disposal records for this AFVR event are provided in Appendix A.

CONCLUSIONS

Four 96-hour AFVR events were conducted on wells MW-01, MW-08, RW-01, RW-02, RW-07, RW-08, RW-11, and RW-12. At the completion of the AFVR events, a total volume of 31,214 gallons of petroleum-impacted groundwater was determined to have been recovered from the site.



Approximately 4.5 gallons of free-phase petroleum product was measured in the holding tanks and 37.2-gallons of gasoline were calculated to have been recovered via vapor-phase emissions. Additional petroleum product emulsified in the groundwater and/or volatilized during the AFVR event, could not be quantified.

RECOMMENDATIONS

As free-product remains present in well RW-06 and potentially multiple other recovery/monitoring wells associated with the site, we recommend the performance of three additional AFVR events to: 1) remove residual free-phase petroleum product from the area around the extraction points, 2) remove petroleum hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater from the subsurface.

At least 30 days following the final AFVR event, we recommend a comprehensive groundwater sampling event be performed to evaluate the effectiveness of the events, obtain current chemical of concern (CoC) concentration data, and to establish CoC concentration trends.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Mr. Steve Smith. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

TABLES

TABLE 1
AFVR Event Data
March 26-30
Highway 11 Grocery
Saluda, Oconee County, SC
SCDHEC UST Permit #04399; Cost Agreement #06439
BLE Project Number J18-10768-03

Date	Time (hh:mm)	Elapsed Time (hours)	Monitoring Well Gauging Data								AFVR Field Measurements					Air Emissions	
			AFVR Well Vacuum (in. of Hg)		AFVR Well Slinger Depths (feet btec)				Adjacent Well Vacuum (in. of Hg)		Vacuum at Pump (in. Hg)	Temperature (°F)	Relative Humidity (%)	Velocity (ft/min)	Airflow (CFM)	Influent (ppm)	Effluent (ppm)
			03439-MW01	03439-RW01	03439-RW02	03439-MW02	03439-RW02	03439-RW02	03439-MW02	03439-RW02							
3/26/2018	10:00	0.0	20.0	20.0	20.0	24.5	24.5	24.0	0.0	0.0	22.0	80	70.8	487	42	301.4	6.8
3/26/2018	10:30	0.5	22.0	22.0	20.0	25.0	25.0	24.5	0.0	0.0	25.0	80	71.6	984	86	312.2	6.8
3/26/2018	11:00	1.0	22.0	22.0	20.0	25.0	25.0	25.0	0.0	0.0	25.0	90	72.3	913	80	354.9	6.8
3/26/2018	11:30	1.5	22.0	22.0	20.0	25.0	25.0	25.0	0.0	0.0	25.0	100	73.5	1,013	88	362.2	6.8
3/26/2018	12:00	2.0	22.0	22.0	20.0	25.0	25.0	25.0	0.0	0.0	25.0	100	75.7	986	86	318.8	6.8
3/26/2018	12:30	2.5	22.0	22.0	20.0	25.0	25.0	25.0	0.0	0.0	25.0	100	76.1	930	81	321.4	6.8
3/26/2018	13:00	3.0	22.0	22.0	20.0	25.0	25.0	25.0	0.0	0.0	25.0	100	77.9	942	82	318.8	6.8
3/26/2018	13:30	3.5	21.0	21.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	100	78.2	955	83	322.3	6.8
3/26/2018	14:00	4.0	21.0	21.0	20.0	25.0	25.0	24.0	0.0	0.0	24.0	100	78.0	839	73	356.0	6.8
3/26/2018	14:30	4.5	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	98	79.2	994	87	357.4	6.9
3/26/2018	15:00	5.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	98	80.3	939	82	348.3	6.9
3/26/2018	15:30	5.5	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	99	79.8	984	86	350.4	6.9
3/26/2018	16:00	6.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	99	80.3	1,092	95	349.6	6.9
3/26/2018	16:30	6.5	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	99	80.1	1,092	92	354.2	7.1
3/26/2018	17:00	7.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	99	81.2	987	86	351.4	7.1
3/26/2018	17:30	7.5	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	99	80.6	1,017	89	348.4	7.1
3/26/2018	18:00	8.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	99	81.0	1,147	100	349.3	7.1
3/26/2018	19:00	9.0	20.0	19.0	19.0	19.0	25.0	25.0	0.0	0.0	24.0	99	81.3	1,150	100	352.6	7.1
3/26/2018	20:00	10.0	19.0	19.0	19.0	19.0	25.0	25.0	0.0	0.0	24.0	100	80.9	1,136	99	350.2	7.2
3/26/2018	21:00	11.0	19.0	19.0	19.0	19.0	25.0	25.0	0.0	0.0	23.0	100	81.6	1,047	91	353.7	7.3
3/26/2018	22:00	12.0	19.0	19.0	19.0	25.0	25.0	25.0	0.0	0.0	23.0	100	81.3	1,108	97	348.2	7.2
3/27/2018	06:00	20.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	89	72.6	1,039	91	319.6	10.1
3/27/2018	08:00	22.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	80	73.4	1,127	98	381.9	10.1
3/27/2018	10:00	24.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	100	75.7	1,001	87	342.5	10.2
3/27/2018	12:00	26.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	100	76.4	1,112	99	313.8	10.2
3/27/2018	14:00	28.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	23.0	100	78.5	1,220	106	380.9	10.4
3/27/2018	16:00	30.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	23.0	100	78.6	1,130	99	367.4	10.4
3/27/2018	18:00	32.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	23.0	100	78.5	1,170	102	366.7	10.4
3/27/2018	20:00	34.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	23.0	99	78.7	1,080	94	357.8	10.5
3/27/2018	22:00	36.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	23.0	99	78.7	1,172	102	368.1	10.5
3/28/2018	06:00	44.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	80	70.8	1,032	90	318.4	11.7
3/28/2018	08:00	46.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	80	72.3	1,149	100	312.8	11.7
3/28/2018	10:00	48.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	80	73.7	1,018	89	303.2	11.9
3/28/2018	12:00	50.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	100	75.1	1,086	95	347.6	12.1
3/28/2018	14:00	52.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	105	76.2	1,170	102	343.0	12.2
3/28/2018	16:00	54.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	110	76.3	1,052	92	346.5	12.2
3/28/2018	18:00	56.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	25.0	110	78.6	1,239	108	352.1	12.2
3/28/2018	20:00	58.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	23.0	105	79.8	1,263	110	348.3	12.2
3/28/2018	22:00	60.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	23.0	100	80.4	1,347	118	344.1	12.2
3/29/2018	06:00	68.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	80	72.3	1,130	99	313.8	14.8
3/29/2018	08:00	70.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	80	73.6	1,247	109	340.1	14.7
3/29/2018	10:00	72.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	100	75.1	1,103	96	307.3	14.8
3/29/2018	12:00	74.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	100	77.9	1,005	88	339.4	14.9
3/29/2018	14:00	76.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	110	78.4	1,165	102	352.7	15.0
3/29/2018	16:00	78.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	110	78.7	1,092	95	358.7	15.0
3/29/2018	18:00	80.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	110	79.0	1,130	99	355.4	15.2
3/29/2018	20:00	82.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	105	78.2	1,083	95	354.7	15.2
3/29/2018	22:00	84.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	100	77.0	1,146	100	356.3	15.2
3/30/2018	06:00	92.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	80	70.1	1,108	97	303.8	17.9
3/30/2018	08:00	94.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	80	71.3	1,097	96	342.1	17.9
3/30/2018	10:00	96.0	20.0	20.0	20.0	25.0	25.0	25.0	0.0	0.0	24.0	100	73.7	1,142	100	317.8	18.0

Monitoring Well Number	Initial Depth to FFP (ft btec)	Initial Depth to Water (ft btec)	Initial FFP Thickness (ft)	Final Depth to FFP (ft btec)	Final Depth to Water (ft btec)	Final FFP Thickness (ft)	Water Level Change (ft)
03439-MW01	NFPF	24.15	NFPF	NFPF	26.66	NFPF	2.41
03439-RW01	NFPF	24.40	NFPF	NFPF	26.74	NFPF	2.35
03439-RW02	23.45	23.91	0.26	NFPF	25.41	NFPF	1.50
03439-MW02	NFPF	25.75	NFPF	NFPF	26.50	NFPF	0.75
03439-RW03	NFPF	24.90	NFPF	NFPF	25.74	NFPF	0.85

Notes: 4-inch diameter stack size
btec - below top of casing
PID - Photo-Ionization Detector
Vapor concentrations measured with portable MiniRAE® 3000 PID.
Temperature and Relative Humidity measured with an Extech 45160 Thermo-Hygro-Anemometer.
in. of Hg - inches of mercury
ppm - parts per million
Water Level Change (feet) = Final depth to water - initial depth to water
NFPF - No Free Phase Product
°F - Fahrenheit
CFM - Cubic feet per minute
FFP - Free-Phase Product

Recovery Information	
Total Volume of Water (gallons)	9,421
Total Volume of FFP (gallons)	2.0
Total Calculated Carbon Recovered as Emissions (pounds)	22.1
Total Calculated Gasoline Recovered as Emissions (pounds)	25.8
Total Calculated Gasoline Recovered as Emissions (gallons)	3.6

TABLE 2
AFVR Event Data
 April 2-4
 Highway 11 Grocery
 Saluda, Orange County, NC
 SCDHEC UST Permit 03439; Cost Agreement 05639
 BLE Project Number J18-10748-03

Date	Time (hh:mm)	Elapsed Time (hours)	Monitoring Well Gaging Data							AFVR Field Measurements				Air Emissions			
			AFVR Well Varum (in. of Hg)			AFVR Well Slinger Depths (feet base)			Adjacent Well Varum (in. of Hg)		Vacuum at Pump (in. Hg)	Temperature (°F)	Relative Humidity (%)	Velocity (ft/min)	Airflow (CFM)	Influent (ppm)	Effluent (ppm)
			03439-MW08	03439-RW08	03439-RW07	03439-MW08	03439-RW08	03439-RW07	03439-RW06	03439-RW10							
4/2/2018	07:00	0.0	22.0	22.0	22.0	21.0	19.5	20.5	0.0	0.0	25.0	80	71.8	1.272	111	2.322	130.8
4/2/2018	07:30	0.5	22.0	22.0	22.0	21.5	20.0	21.0	0.0	0.0	25.0	80	72.3	1.215	106	2.319	121.1
4/2/2018	08:00	1.0	22.0	22.0	22.0	22.0	20.5	21.5	0.0	0.0	25.0	80	72.4	1.223	107	2.331	108.1
4/2/2018	08:30	1.5	22.0	22.0	22.0	22.5	21.0	22.0	0.0	0.0	25.0	80	74.0	1.240	108	2.312	115.8
4/2/2018	09:00	2.0	22.0	22.0	22.0	23.0	21.5	22.5	0.0	0.0	25.0	80	74.5	1.231	107	2.354	141.8
4/2/2018	09:30	2.5	22.0	22.0	22.0	23.5	22.0	23.0	0.0	0.0	25.0	100	75.6	1.035	90	2.330	121.4
4/2/2018	10:00	3.0	22.0	22.0	22.0	24.0	22.5	23.5	0.0	0.0	25.0	100	76.1	1.126	98	2.304	117.8
4/2/2018	10:30	3.5	22.0	22.0	22.0	24.5	23.0	24.0	0.0	0.0	25.0	100	77.9	1.049	92	2.312	123.8
4/2/2018	11:00	4.0	22.0	22.0	22.0	25.0	23.5	24.5	0.0	0.0	25.0	100	79.4	0.994	87	2.349	153.1
4/2/2018	11:30	4.5	22.0	22.0	22.0	25.0	24.0	25.0	0.0	0.0	25.0	100	80.8	1.132	99	2.310	117.2
4/2/2018	12:00	5.0	22.0	22.0	22.0	25.0	24.5	25.0	0.0	0.0	25.0	100	81.2	1.040	91	2.348	122.0
4/2/2018	12:30	5.5	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	82.7	1.002	87	2.343	124.5
4/2/2018	13:00	6.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	84.4	1.023	89	2.310	120.6
4/2/2018	13:30	6.5	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	85.2	1.011	88	2.306	121.5
4/2/2018	14:00	7.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	86.5	0.987	86	2.314	115.7
4/2/2018	14:30	7.5	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	87.9	1.124	98	2.363	116.4
4/2/2018	15:00	8.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	88.0	1.062	93	2.345	136.0
4/2/2018	16:00	9.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	89.5	1.107	97	2.317	109.1
4/2/2018	17:00	10.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	88.6	1.141	100	2.330	110.7
4/2/2018	18:00	11.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	88.0	1.066	93	2.317	115.5
4/2/2018	19:00	12.0	22.0	22.0	22.0	25.0	24.0	24.0	0.0	0.0	25.0	100	87.6	1.207	105	2.322	116.8
4/2/2018	20:00	13.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	85.1	1.123	98	2.308	127.8
4/2/2018	21:00	14.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	86.7	0.936	82	2.413	121.5
4/2/2018	22:00	15.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	84.3	1.004	88	2.417	123.7
4/2/2018	23:00	16.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	82	76.5	1.024	89	2.399	116.1
4/2/2018	00:00	17.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	84	78.3	0.996	87	2.377	117.8
4/3/2018	00:00	25.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	84	79.4	1.068	93	2.355	137.4
4/3/2018	10:00	27.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	88	82.7	1.012	88	2.317	132.6
4/3/2018	12:00	29.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	110	90.1	0.996	87	2.301	124.5
4/3/2018	14:00	31.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	110	91.2	1.057	92	2.330	115.8
4/3/2018	16:00	33.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	90.8	1.137	99	2.327	120.4
4/3/2018	18:00	35.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	88.6	1.043	91	2.304	115.6
4/3/2018	20:00	37.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	85.3	1.106	97	2.330	111.1
4/3/2018	22:00	39.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	86.0	1.050	88	2.180	121.9
4/4/2018	00:00	47.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	90	80.1	1.142	100	2.154	117.8
4/4/2018	10:00	49.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	92	82.4	1.096	96	2.204	119.9
4/4/2018	12:00	51.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	106	86.1	1.096	96	2.215	121.2
4/4/2018	14:00	53.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	87.8	1.103	96	2.223	110.8
4/4/2018	16:00	55.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	89.1	1.025	89	2.211	107.1
4/4/2018	18:00	57.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	86.3	1.143	100	2.216	111.3
4/4/2018	20:00	59.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	84.9	1.100	96	2.244	121.7
4/4/2018	22:00	61.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	81.8	1.052	92	2.217	110.9
4/5/2018	00:00	63.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	79.3	1.047	91	1.971	107.3
4/5/2018	08:00	71.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	76.1	0.996	87	2.001	111.1
4/5/2018	10:00	73.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	106	79.2	1.047	91	1.917	101.7
4/5/2018	12:00	75.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	84.2	0.996	87	1.876	99.9
4/5/2018	14:00	77.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	85.7	1.004	88	1.764	98.6
4/5/2018	16:00	79.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	87.8	1.132	99	1.836	94.2
4/5/2018	18:00	81.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	86.4	1.086	95	1.401	94.1
4/5/2018	20:00	83.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	85.3	1.137	99	1.327	101.4
4/5/2018	22:00	85.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	84.9	1.001	87	1.116	94.7
4/6/2018	00:00	87.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	100	81.0	1.115	97	1.120	98.2
4/6/2018	06:00	95.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	80	72.1	1.039	91	1.181	105.8
4/6/2018	07:00	96.0	22.0	22.0	22.0	25.0	25.0	25.0	0.0	0.0	25.0	80	74.5	1.121	98	1.122	112.7

Monitoring Well Number	Initial Depth to FFP (ft base)	Initial Depth to Water (ft base)	Initial FFP Thickness (ft)	Final Depth to FFP (ft base)	Final Depth to Water (ft base)	Final FFP Thickness (ft)	Water Level Change (ft)
03439-MW08	20.75	20.75	0.01	N/FPF	22.00	N/FPF	1.24
03439-RW08	N/FPF	19.03	N/FPF	N/FPF	19.55	N/FPF	0.52
03439-RW07	19.97	20.74	0.78	N/FPF	21.69	N/FPF	0.84
03439-RW06	17.11	20.85	3.74	17.80	22.25	4.55	1.50
03439-RW10	N/FPF	20.50	N/FPF	N/FPF	22.02	N/FPF	1.52

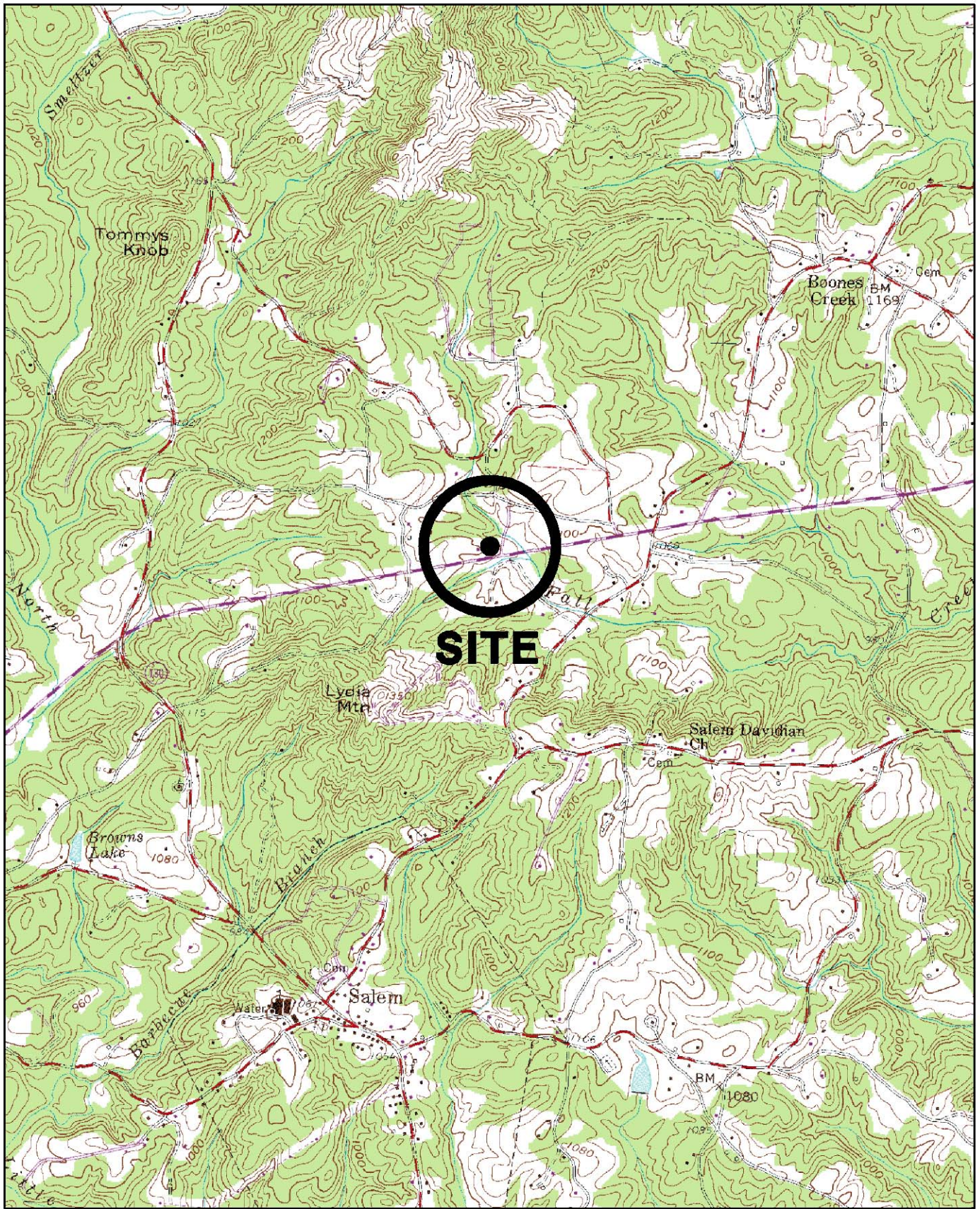
Notes: 4-inch diameter stack size
 base - below top of casing
 Vapor concentrations measured with portable MiniRAE® 3000 PID.
 PID - Photo-Ionization Detector
 Temperature and Relative Humidity measured with an Extech 45160 Thermo-Hygro-Anemometer.
 in. of Hg - inches of mercury
 ppm - parts per million
 Water Level Change (ft) = Final depth to water - initial depth to water
 N/FPF - No Free Phase Product
 °F - Fahrenheit
 CFM - Cubic feet per minute
 FFP - Free-Phase Product

Recovery Information	
Total Volume of Water (gallons)	8,890
Total Volume of FFP (gallons)	2.5
Total Calculated Carbon Recovered as Emulsion (pounds)	128.0
Total Calculated Oxidant Recovered as Emulsion (pounds)	148.1
Total Calculated Gasoline Recovered as Emulsion (gallons)	20.4

TABLE 3
AFYR Event Data
April 9-13
Highway 11 Grocery
Saline, Orange County, SC
SCDHEC UST Permit 05439; Cont. Agreement #56339
BLE Project Number J18-10768-03

Date	Time (hh:mm)	Elapsed Time (hours)	Monitoring Well Gauging Data						AFYR Field Measurements					Air Emissions			
			AFYR Well Vacuum (in. of Hg)		AFYR Well Sludge Depth (feet bnc)		Adjacent Well Vacuum (in. of Hg)		Vacuum at Pump (in. Hg)	Temperature (°F)	Relative Humidity (%)	Velocity (ft/min)	Airflow (CFM)	Inherent (ppm)	Effluent (ppm)		
4/9/2018	10:00	0.0	22.0	22.0	22.0	21.0	18.5	19.5	0.0	0.0	23.0	80	72.1	1,134	99	1,464	1.1
4/9/2018	10:30	0.5	22.0	22.0	22.0	21.0	17.0	20.0	0.0	0.0	23.0	80	73.5	1,057	97	1,360	1.1
4/9/2018	11:00	1.0	22.0	22.0	22.0	21.0	17.5	20.5	0.0	0.0	23.0	80	74.1	1,274	107	1,270	1.1
4/9/2018	11:30	1.5	22.0	22.0	22.0	21.5	18.0	21.0	0.0	0.0	23.0	80	75.0	1,130	99	1,415	1.1
4/9/2018	12:00	2.0	22.0	22.0	22.0	21.0	18.5	21.5	0.0	0.0	23.0	85	77.9	1,206	105	1,443	1.1
4/9/2018	12:30	2.5	22.0	22.0	22.0	21.5	19.0	22.0	0.0	0.0	23.0	85	79.2	1,101	96	1,433	1.1
4/9/2018	13:00	3.0	22.0	22.0	22.0	21.0	19.5	22.5	0.0	0.0	23.0	92	80.1	1,009	88	1,458	1.1
4/9/2018	13:30	3.5	22.0	22.0	22.0	21.5	20.0	23.0	0.0	0.0	24.0	94	81.1	1,000	87	1,435	1.1
4/9/2018	14:00	4.0	22.0	22.0	22.0	21.0	20.5	23.5	0.0	0.0	24.0	98	82.7	1,246	109	1,480	1.1
4/9/2018	14:30	4.5	22.0	22.0	22.0	21.0	21.0	24.0	0.0	0.0	24.0	98	83.4	1,039	91	1,447	1.1
4/9/2018	15:00	5.0	22.0	22.0	22.0	21.5	21.5	24.5	0.0	0.0	24.0	98	83.9	1,107	97	1,458	1.1
4/9/2018	15:30	5.5	22.0	22.0	22.0	21.0	22.0	25.0	0.0	0.0	24.0	100	85.1	1,134	99	1,447	1.1
4/9/2018	16:00	6.0	22.0	22.0	22.0	21.0	22.5	25.0	0.0	0.0	24.0	100	86.7	1,023	89	1,466	1.1
4/9/2018	16:30	6.5	22.0	22.0	22.0	21.0	23.0	25.0	0.0	0.0	24.0	100	86.7	1,056	92	1,470	1.1
4/9/2018	17:00	7.0	22.0	22.0	22.0	21.0	23.5	25.0	0.0	0.0	24.0	100	87.1	1,130	99	1,471	1.1
4/9/2018	17:30	7.5	22.0	22.0	22.0	21.0	24.0	25.0	0.0	0.0	24.0	100	87.8	1,004	88	1,412	1.1
4/9/2018	18:00	8.0	22.0	22.0	22.0	21.0	24.5	25.0	0.0	0.0	24.0	100	89.2	939	87	1,393	1.1
4/9/2018	18:30	8.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	24.0	100	88.6	1,033	91	1,480	1.1
4/9/2018	19:00	9.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	24.0	99	89.4	1,056	92	1,467	1.1
4/9/2018	19:30	9.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	24.0	99	87.1	1,137	99	1,437	1.1
4/9/2018	20:00	10.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	24.0	99	85.8	1,262	110	1,456	1.1
4/9/2018	20:30	10.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	24.0	99	85.1	1,171	107	1,453	1.1
4/10/2018	06:00	14.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	24.0	99	86.8	1,154	101	1,427	1.1
4/10/2018	06:30	14.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	80	100.9	1,001	87	1,401	2.3
4/10/2018	07:00	15.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	80	72.1	1,101	96	1,414	2.1
4/10/2018	07:30	15.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	80	73.7	1,034	90	1,456	2.3
4/10/2018	08:00	16.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	100	75.8	1,136	99	1,306	2.3
4/10/2018	08:30	16.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	100	80.5	1,171	98	1,430	2.7
4/10/2018	09:00	17.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	24.0	114	80.7	1,044	88	1,310	2.7
4/10/2018	09:30	17.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	26.0	115	78.7	1,097	96	1,236	2.7
4/10/2018	10:00	18.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	24.0	110	80.3	1,036	89	1,122	2.7
4/10/2018	10:30	18.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	24.0	105	78.1	1,158	101	1,243	2.7
4/10/2018	11:00	19.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	24.0	99	81.2	1,034	90	1,187	2.8
4/11/2018	06:00	18.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	80	82.3	904	79	1,354	2.2
4/11/2018	06:30	18.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	80	73.7	1,136	99	1,107	5.2
4/11/2018	07:00	19.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	80	74.5	1,031	90	1,032	5.2
4/11/2018	07:30	19.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	80	75.8	1,326	116	1,128	5.3
4/11/2018	08:00	20.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	100	77.9	1,054	92	1,046	5.6
4/11/2018	08:30	20.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	100	80.8	1,171	98	1,130	5.8
4/11/2018	09:00	21.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	110	81.6	1,241	108	1,311	5.6
4/11/2018	09:30	21.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	120	80.2	1,163	101	1,079	5.6
4/11/2018	10:00	22.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	109	82.6	1,267	111	1,177	5.7
4/11/2018	10:30	22.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	95	79.6	1,184	103	1,086	5.7
4/11/2018	11:00	23.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	94	81.2	1,252	109	1,137	5.7
4/12/2018	06:00	42.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	80	73.7	1,136	99	1,107	5.2
4/12/2018	06:30	42.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	80	74.5	1,031	90	1,032	5.2
4/12/2018	07:00	43.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	80	75.8	1,326	116	1,128	5.3
4/12/2018	07:30	43.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	100	77.9	1,054	92	1,046	5.6
4/12/2018	08:00	44.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	100	80.8	1,171	98	1,130	5.8
4/12/2018	08:30	44.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	110	81.6	1,241	108	1,311	5.6
4/12/2018	09:00	45.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	120	80.2	1,163	101	1,079	5.6
4/12/2018	09:30	45.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	109	82.6	1,267	111	1,177	5.7
4/12/2018	10:00	46.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	95	79.6	1,184	103	1,086	5.7
4/12/2018	10:30	46.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	94	81.2	1,252	109	1,137	5.7
4/12/2018	11:00	47.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	80	73.7	1,136	99	1,107	5.2
4/12/2018	11:30	47.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	80	74.5	1,031	90	1,032	5.2
4/12/2018	12:00	48.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	100	77.9	1,054	92	1,046	5.6
4/12/2018	12:30	48.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	100	80.8	1,171	98	1,130	5.8
4/12/2018	13:00	49.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	110	81.6	1,241	108	1,311	5.6
4/12/2018	13:30	49.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	120	80.2	1,163	101	1,079	5.6
4/12/2018	14:00	50.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	109	82.6	1,267	111	1,177	5.7
4/12/2018	14:30	50.5	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	95	79.6	1,184	103	1,086	5.7
4/12/2018	15:00	51.0	22.0	22.0	22.0	21.0	25.0	25.0	0.0	0.0	23.0	94	81.2	1,252	109	1,137	5.7
4/12/2018	15:30	51.5	22.0	22.0	22.0	21.0	25.0	25.0	0								

FIGURES



REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES,
SALEM, S.C. QUADRANGLE, PHOTOREVISED 1980.

DRAWN: ACE	DATE: 5-15-18
CHECKED: TJB	CAD: FHwy11GROCERY-03SLM
APPROVED: TJB	JOB NO: J18-10769-03

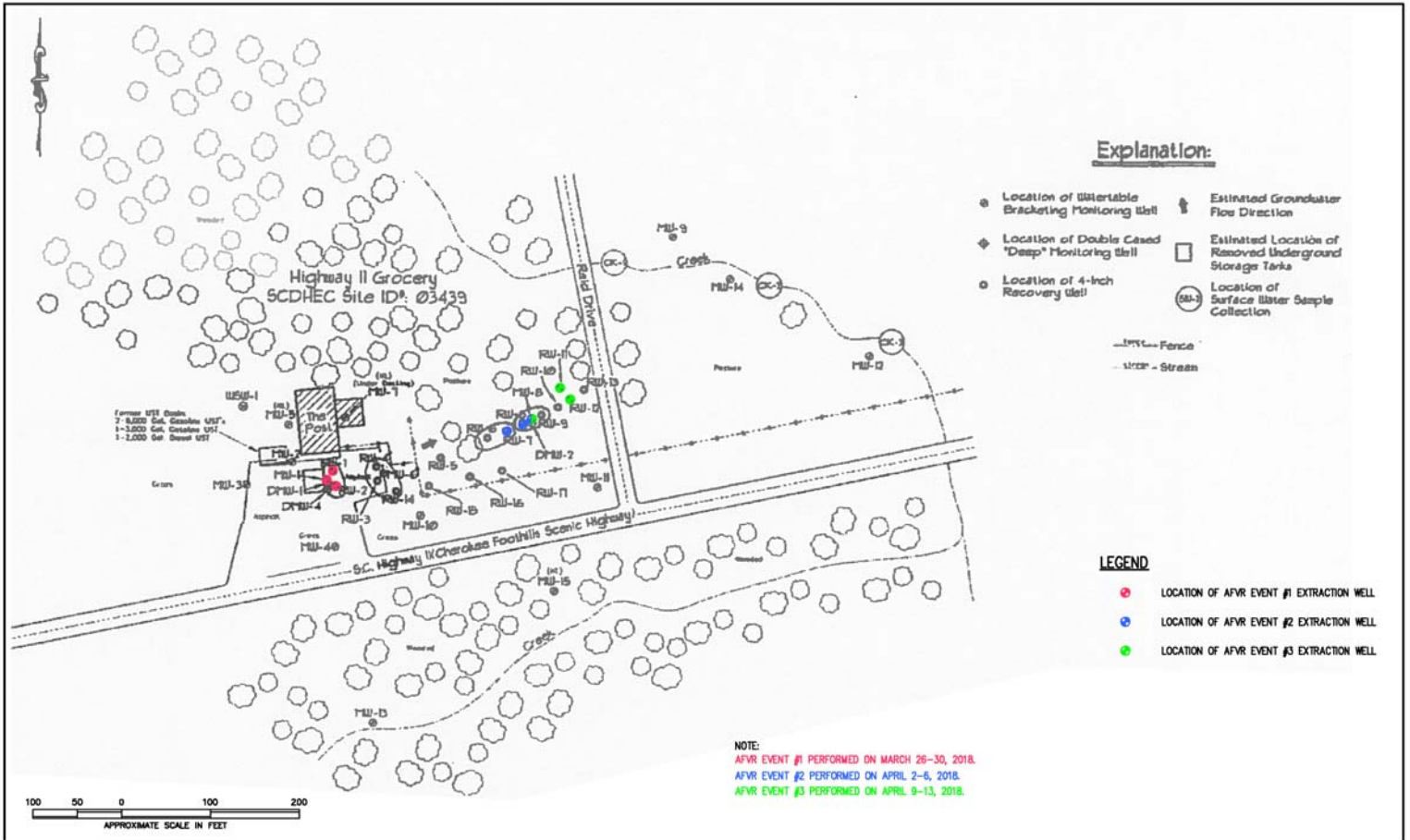
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GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

SITE LOCATION MAP
FORMER HIGHWAY 11 GROCERY
UST PERMIT #03439
13527 HIGHWAY 11 NORTH
SALEM, SOUTH CAROLINA

FIGURE
1



DRAWN BY:	ACE	DATE:	5-15-18
CHECKED BY:	TJB	FILE:	FHWY11GROCERY-03AFVR
APPROVED BY:	TJB	JOB NO:	J18-10769-03

REVISIONS		BY
No.	DESCRIPTION	



DUNNELL-LAMBORN ENGINEERING, INC.
 8004 PONDERS COURT
 GREENVILLE, SOUTH CAROLINA 29615
 PHONE: (864)298-1200 FAX: (864)298-4430

AFVR SITE PLAN
 FORMER HIGHWAY 11 GROCERY
 UST PERMIT #03439
 13527 HIGHWAY 11 NORTH
 SALEM, SOUTH CAROLINA

FIGURE
2

APPENDICES

APPENDIX A

WASTE DISPOSAL MANIFESTS

Non-Hazardous Manifest: Waste Water or Drums		Number:		
1. Generator's EPA ID# (if applicable):		Waste ID Number:		
2. Generator's Name and Mailing Address: HWY 11 Groceries 13527 HWY 11 Salem SC		Phone ()		
		P O #:		
3. Agent of Generator and Mailing Address: BLE		Phone ()		
		P O #:		
4. Transporter Company Name: Foodsell Services 511 Old Mt Holly Rd		Phone ()		
Truck & Trailer License Number: Goose Creek SC 29445				
5. Transporter U.S. EPA ID#:				
6. Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445		Mailing Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445		
		Phone: (843) 797-3111		
		Fax: (843) 797-1884		
7. Facility U.S. EPA ID#:				
Start Level:		End Level:		
		Total Gallons:		
		Tank Number		
8. U.S. DOT Description				
	Container		Unit	Quantity
	No.	Type		
a. Non-Hazardous, non-regulated waste water	103	VT	Gal	5560
9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.				
Printed/Typed Name: Brandon Hussins		Signature: <i>Brandon Hussins</i>		
		Date: 3/28/18		
10. Transporter Acknowledgement of Receipt of Materials				
Printed/Typed Name: Dan Kinsman		Signature: <i>Dan Kinsman</i>		
		Date: 3/28/18		
11. Discrepancy Indication space:				
12. Facility Owner or Operator: Certification of Receipt of Materials				
Printed/Typed Name: <i>Walter Dorn</i>		Signature: <i>Walter Dorn</i>		
		Date: 3/28/18		

White - Facility Yellow - Office Pink - Transporter Blue - Generator

30350512
TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
PO. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

17:18
SCALE: 30350512
LOCATION:
PUBLIC WEIGHMASTERS
CERTIFICATE OF
WEIGHT & MEASURE

DATE: 3-28-18

STEER AXLE 12020 lb
DRIVE AXLE 36540 lb
TRAILER AXLE 33240 lb
* GROSS WEIGHT 81800 lb

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE
(IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

GOODSELL

COMPANY

WEIGH NUMBER
0457

FEE

WEIGHMASTER OR
DRIVER SIGNATURE
\$2.00 (FEWEIGH)

TRACTOR #
TRAILER #
FULL WEIGHT
TICKET #
JANICE MCPHERSON

04

3035

FREIGHT ALL KINDS

CUSTOMER COPY

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.®

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
- (2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
- 3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

WEIGH.
PAY.
GET GOING.
FIND OUT MORE AT
WEIGHMYTRUCK.COM

DRIVER IN TRUCK LINESS CHECKED HERE

30350457

TICKET NUMBER



CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY P.O. BOX 630 WALCOTT, IA 52773 (563) 284-6263 www.catscale.com

05:16 SCALE: 30350 LOCATION: PUBLIC WEIGHMASTERS CERTIFICATE OF WEIGHT & MEASURE

DATE:

3-28-18

STEER AXLE

12000 lb

DRIVE AXLE

13640 lb

TRAILER AXLE

9840 lb

893 PILOT I 26 EXIT 199 SUMMERVILLE SC *GROSS WEIGHT

35480 lb

IMPRINT SEAL HERE (IF APPLICABLE)

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

GOODSELL

103

COMPANY

04 TRAILER #

WEIGH NUMBER 0457 FEE

WEIGHMASTER OR SIGNATURE \$11.00

FULL WEIGHT TICKET #

BRENDA JACKSON (REWEIGH)

CUSTOMER COPY

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR
(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

WEIGH. GET GOING. FIND OUT MORE AT WEIGHMYTRUCK.COM

DRIVER IN TRUCK LINES CHECKED HERE

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone 1-800-947-6805	4. Waste Tracking Number 03308-B
5. Generator's Name and Mailing Address Landprobe 6004 Ponders Ct. Greenville, SC 29615					
Generator's Phone:					
6. Transporter 1 Company Name Phillips Resources Inc.				U.S. EPA ID Number 000784652	
7. Transporter 2 Company Name				U.S. EPA ID Number	
8. Designated Facility Name and Site Address 305 S. Main St Mauldin, SC 29662				U.S. EPA ID Number	
Facility's Phone: 864-962-9953					
9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
	No.	Type			
1. HAZ NON-HAZ Contaminated Groundwater	001	TT		P	
2. # 11312 (per Justin D.)					
3.					
4.					
13. Special Handling Instructions and Additional Information INB: 45A OCT-9: 45A					
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/Offorer's Printed/Typed Name Brandon Higgins				Signature <i>[Signature]</i>	
				Month Day Year 03 30 18	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Richard Ellison				Signature <i>[Signature]</i>	
				Month Day Year 03 30 18	
Transporter 2 Printed/Typed Name Chris Clavel				Signature <i>[Signature]</i>	
				Month Day Year 4 2 18	
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
3,861 GAL BASED ON WEIGHT					
17b. Alternate Facility (or Generator)				Manifest Reference Number: 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 Franky Chappell				Signature <i>[Signature]</i>	
				Month Day Year 4 2 18	

79461

SCALE TICKET

04/02/2018	08:04AM
Progressive	6858
RcPD I.D. number	3
Gross	65460 lb
Tare(%)	33260 lb
* Preset weight	
Net	32200 lb

Scale Company: VLS

Weighed By: T.R.

Carrier: Phillips

Customer: Land probe

PO/BOL/Manifest 033018-B

Tractor Number: 121

Trailer Number: AV+106

Driver Signature: Chris Collett

WHITE - Driver YELLOW - Driver CARD - Scale

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number		2. Page 1 of		3. Emergency Response Phone 1-800-947-6805		4. Waste Tracking Number 040318B	
5. Generator's Name and Mailing Address Bunnell - Lammons 3527 Hwy 11 Salem, SC									
6. Transporter 1 Company Name Phillips Recoveries									
7. Transporter 2 Company Name									
8. Designated Facility Name and Site Address US Recovery 305 S Main St Mauldin, SC 29442									
9. Waste Shipping Name and Description									
10. Containers									
11. Total Quantity									
12. Unit Wt./Vol.									
13. Special Handling Instructions and Additional Information									
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.									
15. International Shipments									
16. Transporter Acknowledgment of Receipt of Materials									
17. Discrepancy									
17a. Discrepancy Indication Space									
17b. Alternate Facility (or Generator)									
17c. Signature of Alternate Facility (or Generator)									
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a									

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

4,393 GAL BASED ON WEIGHT

79591

SCALE TICKET

04/04/2018 08:06AM
Progressive 7050
Rcd I.D. 8748
Inbound weight 69560 lb

04/04/2018 09:35AM
Progressive 7068
Rcd I.D. 8748
Gross 69560 lb
Tare 32920 lb
Net 36640 lb

Scale Company: VLJ

Weighed By: TR

Carrier: Phillips

Customer: LEMMONS

PO/BOL/Manifest _____

Tractor Number: 125

Trailer Number: 106

Driver Signature: Jim Deams

WHITE - Driver YELLOW - Driver CARD - Scale

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 1-800-947-6805	4. Waste Tracking Number 040518 13
5. Generator's Name and Mailing Address B2E 6004 Platters Court Rd Greenville SC Generator's Phone			Generator's Site Address (if different than mailing address) Hwy 11 Lockway Spartanburg SC		
6. Transporter 1 Company Name Phillips Resources Inc			U.S. EPA ID Number SC-R000784652		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address 3055 Mustang VLS Wadeville SC 29662 Facility's Phone: 864.462.9953			U.S. EPA ID Number		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. NON-HAZ Waste Water		001	TT		P
2. # 11312					
3.					
4.					
13. Special Handling Instructions and Additional Information					
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/Offoror's Printed/Typed Name Brandon Hussis			Signature <i>Brandon Hussis</i>		Month Day Year 04/05/18
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Richard E. Elm			Signature <i>Richard E. Elm</i>		Month Day Year 10/05/18
Transporter 2 Printed/Typed Name Steve Self			Signature <i>Steve Self</i>		Month Day Year 04/10/18
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
4,331 GAL BASED ON WEIGHT			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 Franky Chappell			Signature <i>Franky Chappell</i>		Month Day Year 4/10/18

79741

SCALE TICKET

04/10/2018	09:38AM
Progressive	7415
Rcd I.D.	1675
Inbound weight	67520 lb

04/10/2018	10:40AM
Progressive	7424
Rcd I.D.	1675
Gross	67520 lb
Tare	31400 lb
Net	36120 lb

Scale Company: ULS

Weighed By: JC

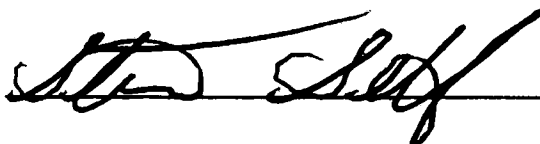
Carrier: PRI

Customer: BLE

PO/BOL/Manifest 040518B

Tractor Number: 122

Trailer Number: AVT1a

Driver Signature: 

WHITE - Driver YELLOW - Driver CARD - Scale

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number 4-6-18-BKW-BLE
5. Generator's Name and Mailing Address BUNNELL-LAMMON ENG, INC 6004 PONDERS COURT GREENVILLE, SC 29615			Generator's Site Address (if different than mailing address)		
Generator's Phone: 864-288-1265					
6. Transporter 1 Company Name BLE			U.S. EPA ID Number		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address VLS RECOVERY SERVICES, LLC 305 S. MAIN STREET MAULDIN, SC 29662			U.S. EPA ID Number SCR000762468		
Facility's Phone: 854-962-9953					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. NON HAZARDOUS NON REGULATED WELL WATER PROFILE #11312 Howard Goodson (development) UST #02737		1	TT	21	G
2. Granard Middle School UST #13762				18	
3. Walter P. Rawl & Sons UST #06142				119	
4. Hwy 11 Grocery UST #03439				175	
13. Special Handling Instructions and Additional Information					
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/Offoror's Printed/Typed Name Brian K White			Signature <i>Brian K. White</i>		Month Day Year 4 6 2018
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Brian K. White			Signature <i>Brian K. White</i>		Month Day Year 4 6 2018
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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)			Signature		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 F Chappell			Signature <i>Fronky Chappell</i>		Month Day Year 4 6 18

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY



NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number 4-6-18-RKW-BLE	
5. Generator's Name and Mailing Address BUNNELL-LAMMON ENG, INC 6004 PONDRS COURT GREENVILLE, SC 29615			Generator's Site Address (if different than mailing address)			
Generator's Phone: 864-288-1265		6. Transporter 1 Company Name BLE		U.S. EPA ID Number		
7. Transporter 2 Company Name				U.S. EPA ID Number		
8. Designated Facility Name and Site Address VLS RECOVERY SERVICES, LLC 305 S. MAIN STREET MAULDIN, SC 29662			U.S. EPA ID Number SCR000762468			
Facility's Phone: 864-962-9953						
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
		No.	Type			
1. NON HAZARDOUS NON REGULATED WELL WATER PROFILE #11312 <i>Enmark 300 cst # 05545</i>		1	TT	310	G	
2.						
3.						
4.						
13. Special Handling Instructions and Additional Information						
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 Brian K. White			Signature Brian K. White		Month 4	Day 6
					Year 18	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Brian K. White			Signature Brian K. White		Month 4	Day 6
					Year 18	
Transporter 2 Printed/Typed Name			Signature		Month	Day
					Year	
17. Discrepancy						
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
17b. Alternate Facility (or Generator)			Manifest Reference Number:		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	

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number 041118-13
5. Generator's Name and Mailing Address Bunnell-Lammons Engineering 604 Ponders Ct Greenville, SC 29615			Generator's Site Address (if different than mailing address) Hwy 11 Grocery UST# 03439 13527 Hwy 11 Salem, SC		
6. Transporter 1 Company Name Phillips Recoveries			U.S. EPA ID Number SCR000794052		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address VLS Recovery Services 305 S. Main St Mauldin, SC 29662			U.S. EPA ID Number		
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Well Water #11312		001	TT		
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information					
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 Brandon Hussin		Signature Brandon Hussin		Month Day Year 04/11/18	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Richard Fuller		Signature Richard Fuller		Month Day Year 04/11/18	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
5,276 GAL BASED ON WEIGHT 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 F Chappell		Signature Franky Chappell		Month Day Year 4/11/18	

79904

SCALE TICKET

04/11/2018	09:05AM
Progressive	7505
Rcd I.D.	16709
Inbound weight	78140 lb

04/11/2018	09:58AM
Progressive	7513
Rcd I.D.	16709
Gross	78140 lb
Tare	34140 lb
Net	44000 lb

Scale Company: ULS

Weighed By: AC

Carrier: PRI

Customer: Bunnell-Lammons

PO/BOL/Manifest 041118-B

Tractor Number: 124

Trailer Number: A67106

Driver Signature: [Signature]

WHITE - Driver YELLOW - Driver CARD - Scale

T-33

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number JF 04102018	
5. Generator's Name and Mailing Address Bunnell Lammons Engineering 6004 Ponders Ct Greenville, SC 29615			Generator's Site Address (if different than mailing address) Hwy 11 Grocery #03439 13527 Hwy 11 Salem, SC			
6. Transporter 1 Company Name Phillips Recoveries, Inc.			U.S. EPA ID Number SCK000784052			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address US Recovery Services 305 S. Main St Mauldin, SC 29002			U.S. EPA ID Number			
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
		No.	Type			
1. Well Water # 11312		001	TI			
2.						
3.						
4.						
13. Special Handling Instructions and Additional Information LOAD 300P - 325P T-33						
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 vicki Givens			Signature 		Month Day Year 4 9 18	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name MITCH COCHRAN			Signature 		Month Day Year 4 9 18	
Transporter 2 Printed/Typed Name Steve Self			Signature 		Month Day Year 4 10 18	
17. Discrepancy						
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
2720 GAL BASED ON WEIGHT						
17b. Alternate Facility (or Generator)			Manifest Reference Number:		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 Steven Cochran			Signature 		Month Day Year 4 10 18	

79759

SCALE TICKET

04/10/2018	12:20PM
Progressive	7442
Rcd I.D.	671
Inbound weight	52180 lb

04/10/2018	01:03PM
Progressive	7450
Rcd I.D.	671
Gross	52180 lb
Tare	34500 lb
Net	17680 lb

Scale Company: VLS

Weighed By: CB

Carrier: Phillips

Customer: Burrell Lammon's

PO/BOL/Manifest _____

Tractor Number: 122

Trailer Number: T-33

Driver Signature: 

WHITE - Driver YELLOW - Driver CARD - Scale

US Water Recovery

EVENT 3

Non-Hazardous Manifest: Waste Water or Drums		Number:	
1. Generator's EPA ID# (if applicable):		Waste ID Number:	
2. Generator's Name and Mailing Address: <i>13527 N Hwy 11</i> <i>Sulem SC</i>		Phone ()	
		P O #:	
3. Agent of Generator and Mailing Address: <i>BLE</i>		Phone ()	
		P O #:	
4. Transporter Company Name: <i>Goodsell Services</i> <i>511 Old Mt Holly Rd</i>		Phone ()	
Truck & Trailer License Number: <i>Goose Creek SC</i>			
5. Transporter U.S. EPA ID#:			
6. Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445		Mailing Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	
		Phone: (843) 797-3111	
		Fax: (843) 797-1884	
7. Facility U.S. EPA ID#:			
Start Level:		End Level:	
		Total Gallons:	
		Tank Number	
8. U.S. DOT Description			
		Container	
		Unit	
		Quantity	
		No. Type	
a. Non-Hazardous, non-regulated waste water		<i>108 T Gal 5498</i>	
9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.			
Printed/Typed Name: <i>BLE</i>		Signature: _____	
		Date: <i>4/13/18</i>	
10. Transporter Acknowledgement of Receipt of Materials			
Printed/Typed Name: <i>Dan Kinsman</i>		Signature: _____	
		Date: <i>4/13/18</i>	
11. Discrepancy Indication space:			
12. Facility Owner or Operator: Certification of Receipt of Materials			
Printed/Typed Name: <i>PAUL Goodsell</i>		Signature: _____	
		Date: _____	

White - Facility Yellow - Office Pink - Transporter Blue - Generator

19504

31429863

TICKET NUMBER



**CERTIFIED
AUTOMATED
TRUCK
SCALE**

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

THE CAT SCALE GUARANTEE
The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.®

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong. **OR**
- (2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
- 3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:

4-13-2018

STEER AXLE

11360 lb

DRIVE AXLE

12940 lb

TRAILER AXLE

8860 lb

* GROSS WEIGHT

33160 lb

1724

SCALE:

31429863

LOCATION:

PUBLIC WEIGHMASTER'S
CERTIFICATE OF
WEIGHT & MEASURE

254

KANGAROO EXPRESS

I 26 EXIT 199B

SUMMERSVILLE SC

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE
(IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANY GOODSELL

TRACTOR # 04 TRAILER # 108

WEIGH NUMBER

9860

FEE

\$2.00

WEIGHMASTER OR
WEIGHER SIGNATURE

Tina

TINA

FULL WEIGH
TICKET # 31429863
(IF REWEIGH)

CUSTOMER COPY

31429860

TICKET NUMBER



**CERTIFIED
AUTOMATED
TRUCK
SCALE**

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

DATE:

4-13-2018

1609

SCALE:

31429860

LOCATION:

PUBLIC WEIGHMASTER'S
CERTIFICATE OF
WEIGHT & MEASURE

254

KANGAROO EXPRESS
I 26 EXIT 199B
SUMMERVILLE SC

STEER AXLE

11660 1b

DRIVE AXLE

34300 1b

TRAILER AXLE

33000 1b

* GROSS WEIGHT

78960 1b

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE
(IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANY GOODSELL

TRACTOR # 04 TRAILER # 108

WEIGH NUMBER

9860

FEE \$11.50

WEIGHMASTER OR
WEIGHER SIGNATURE

Diamond
TINA

FULL WEIGH
TICKET #
(IF REWEIGH)

CUSTOMER COPY

© CAT Scale® Reg 3063

GET GO...
FIND OUT MORE
WEIGHMYTRUCK.C

THE CAT SCALE GUARANTEE
The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.©

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
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IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
- 3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.



AUG 01 2018



STEVE SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: **Aggressive Fluid and Vapor Recovery Directive**
Hwy 11 Grocery, 13527 N Hwy 11, Salem, SC
UST Permit #03439; CA #57634
Release reported November 28, 2000
Monitoring report received May 18, 2018
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) recognizes your commitment to continue work at this site using Bunnell-Lammons Engineering, Inc. as your contractor.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, two back-to-back Aggressive Fluid and Vapor Recovery (AFVR) events may proceed immediately upon receipt of this letter as outlined in this directive and the UST Quality Assurance Program Plan (QAPP) Revision 3.1. **Please be aware that the AFVR Procedures have been updated.** One 96-hour event should be performed utilizing wells RW-5 and RW-6. The second 96-hour event should be performed utilizing wells RW-7 and RW-8. The stingers shall be lowered at six inch intervals starting at the water table interface to a target depth of 28 feet in the wells. Please advance to the target depth within the first eight (8) hours of each event. Thereafter, the stingers should be adjusted to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary. A copy of the DHEC QAPP Revision 3.1 for the Underground Storage Tank Division is available at <http://www.scdhec.gov/environment/PermitCentral/ApplicationForms/#UST>.

As soon as the beginning date of the event has been scheduled, please contact Adam Looper at Looperam@dhec.sc.gov.

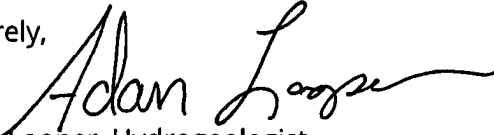
The AFVR Report should be submitted within 90 days from the date of this correspondence. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

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 is obtained from the UST Management Division. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by DHEC for the cost to be paid. DHEC 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, DHEC 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.

On all correspondence concerning this site, please reference UST Permit #03439. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0631, by fax at (803) 898-0673, or by e-mail at Looperam@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink that reads "Adam Looper". The signature is written in a cursive style with a long, sweeping underline.

Adam Looper, Hydrogeologist
Corrective Action and Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville SC 29615 (w/enc.)
Technical file (w/enc.)

Approved Cost Agreement**57634**

Facility: 03439 HWY 11 GROCERY

LOOPERAM

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
19	RPT/PROJECT MNGT & COORDINATIO				
		PRT REPORT PREPARATION	0.1200	\$45,281.250	5,433.75
23	EFR				
		A4 96 HOUR EVENT	2.0000	\$12,567.500	25,135.00
		C4 OFF GAS TREATMENT 96 HOUR	2.0000	\$780.000	1,560.00
		D SITE RECONNAISSANCE	1.0000	\$203.250	203.25
		F1 EFFLUENT DISPOSAL	40,000.0000	\$0.440	17,600.00
		G AFVR EQUIPMENT MOB	2.0000	\$391.500	783.00
		Total Amount			50,715.00

Document Receipt Information

Hard Copy

CD

Email

Date Received 9-10-18

Permit Number 03439

Project Manager Bryan Agee

Name of Contractor BLE

UST Certification Number _____

Docket Number 88TCL1

Scanned _____

Multi AFVR

REPORT OF MULTIPLE AGGRESSIVE FLUID VAPOR RECOVERY EVENTS – JULY 2018

HIGHWAY 11 GROCERY
13527 NORTH SC HIGHWAY 11
SALEM, OCONEE COUNTY,
SOUTH CAROLINA
UST PERMIT #03439; COST AGREEMENT #57634

Prepared For:
Mr. Steve Smith
180 Shallow Ford Road
Salem, South Carolina 29676

SCDHEC Certified Contractor No. UCC-0010
BLE Project Number J18-10768-04

September 5, 2018



6004 Ponders Court | Greenville, SC 29615
☎ 864.288.1265 📠 864.288.4330 ✉ info@blecorp.com
BLECORP.COM



**BUNNELL
LAMMONS
ENGINEERING**

September 5, 2018

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
Underground Storage Tank Management Division
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Adam Looper

Subject: **Report of Multiple 96-Hour Aggressive Fluid Vapor Recovery Events
Former Highway 11 Grocery
13527 North SC Highway 11
Salem, Oconee County, South Carolina
UST Permit #03439; Cost Agreement #57634
BLE Project No. J18-10768-04**

Dear Mr. Looper:

On behalf of Mr. Steve Smith, Bunnell-Lammons Engineering, Inc. (BLE) has completed two 96-hour Aggressive Fluid Vapor Recovery (AFVR) events at the subject site. This scope of work was performed pursuant to a South Carolina Department of Health and Environmental Control (SCDHEC) directive dated August 1, 2018. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

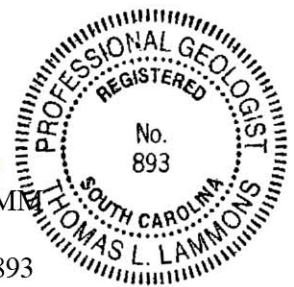
Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Senior Hydrogeologist
Registered, South Carolina No. 2395



Thomas L. Lammons, P.G., CHM
Principal Hydrogeologist
Registered, South Carolina No. 893



cc: Mr. Steve Smith, 180 Shallow Ford Road, Salem, South Carolina 29676



6004 Ponders Court, Greenville, SC 29615 864.288.1265 864.288.4430 info@blecorp.com

BLECORP.COM



1.0 BACKGROUND INFORMATION

Facility Identification:

Facility Name Former Highway 11 Grocery
UST Permit Number 03439
Facility Address 13527 North SC Highway 11
Salem, Oconee County, South Carolina

Release Information:

Release #	Date Reported	Quantity	Type	Cause	Status
1	November 28, 2000	Unknown	Unknown	Unknown	Open

Responsible Party:

Name Mr. Steve Smith
Address 180 Shallow Ford Road
Salem, South Carolina 29676

Property Owner Information:

Name Jocassee Recreation Center, LLC
Address P.O. Box 878
Pickens, South Carolina 29671

Current Site Use: Vacant store

UST Site Rehabilitation Contractor:

Name Bunnell-Lammons Engineering, Inc.
Address 6004 Ponders Court
Greenville, South Carolina 29615
Phone (864) 288-1265
Certification Number UCC-0010



UST System Summary:

UST #	Size (Gallons)	Product	Currently in use (Yes or No)	If not in use, Date Removed
1	6,000	Gasoline	No	Removed – September 15, 2009
2	6,000	Gasoline	No	Removed – September 15, 2009
3	3,000	Gasoline	No	Removed – September 15, 2009
4	2,000	Diesel	No	Removed – September 15, 2009

2.0 AGGRESSIVE FLUID VAPOR RECOVERY EVENTS

On July 7, 2018, BLE personnel mobilized to the facility to evaluate site access and to determine staging locations for the AFVR equipment. From July 24-28, 2018 and July 30, 2018 through August 3, 2018, Landprobe Drilling Services (Landprobe) of Greenville, South Carolina mobilized to the site to perform 96-hour AFVR events. Personnel from BLE’s Greenville, South Carolina office were on-site for observation and monitoring during the events. A site location map (**Figure 1**) and AFVR well location plan (**Figure 2**) are provided with this report. A summary of the AFVR events is provided below.

2.1 AFVR Event #1 – July 24-28, 2018

AFVR Well(s)	RW-05 and RW-06
Gauged Well(s)	RW-03
Pre-AFVR Free-Product Thickness	0.77-feet in RW-03, 1.24-feet in RW-05, and 1.15-feet in RW-06
Post-AFVR Free-Product Thickness	0.62-feet in RW-03, 0.01-feet in RW-05 and <0.01-feet in RW-06
Duration of AFVR Event	96 hours
Total Volume of Liquid Removed	2,487 gallons
Volume of Free-Product in Holding Tank	5.0 gallons
Total Pounds of Free-Product Recovered (Vapor)	31.9 pounds
Total Gallons of Free-Product Recovered (Vapor)	4.4 gallons
General Weather Conditions	07/24/18– Clear, Average Temp. - 76°F 07/25/18– Rain, Average Temp. - 76°F 07/26/18– Clear, Average Temp. - 78°F 07/27/18– Clear, Average Temp. - 78°F 07/28/18– Clear, Average Temp. - 80°F

Pertinent data collected throughout the AFVR event is included in **Table 1** and shown on **Figure 2**. Waste transportation and disposal records for this AFVR event are provided in **Appendix A**.



2.2 AFVR Event #2 – July 30-August 3, 2018

AFVR Well(s)	RW-07 and RW-08
Gauged Well(s)	MW-08 and RW-06
Pre-AFVR Free-Product Thickness	2.10 feet in RW-07, <0.01 feet in MW-08, RW-06, and RW-08
Post-AFVR Free-Product Thickness	<0.01-feet in MW-08, RW-06, RW-07, and RW-08
Duration of AFVR Event	96 hours
Total Volume of Liquid Removed	1,667 gallons
Volume of Free-Product in Holding Tank	3.5 gallons
Total Pounds of Free-Product Recovered (Vapor)	49.2 pounds
Total Gallons of Free-Product Recovered (Vapor)	6.8 gallons
General Weather Conditions	07/30/18– Clear, Average Temp. - 78°F 07/31/18– Overcast, Average Temp. - 76°F 08/01/18– Rain, Average Temp. - 74°F 08/02/18– Rain, Average Temp. – 71°F 08/03/18– Overcast, Average Temp. - 76°F

Pertinent data collected throughout the AFVR event is included in **Table 2** and shown on **Figure 2**. Waste transportation and disposal records for this AFVR event are provided in **Appendix A**.



3.0 CONCLUSIONS AND RECOMMENDATIONS

Two 96-hour AFVR events were conducted on wells RW-05, RW-06, RW-07, and RW-08. At the completion of the AFVR events, a total volume of 4,154-gallons of petroleum-impacted groundwater was determined to have been recovered from the site. Approximately 8.5-gallons of free-phase product was measured in the holding tanks and 11.1-gallons of gasoline were calculated to have been recovered via vapor-phase emissions. Additional petroleum product emulsified in the groundwater and/or volatilized during the AFVR event, could not be quantified.

The AFVR events appear to have been effective in reducing free-phase product during the current scope of work. As free-product continues to persist in recovery wells RW-03 and RW-05 (and possibly others), we recommend performing two additional AFVR events on these wells. Following the conclusion of the last AFVR event, we recommend a comprehensive groundwater sampling event of all monitoring wells associated with the site be conducted to evaluate the effectiveness of the AFVR events and to monitor contaminant concentration trends across the site.



4.0 QUALIFICATION OF REPORT

The findings contained herein are based upon the data that was reviewed and documented in this report along with our experience on similar projects. The discovery of any additional information concerning the environmental conditions at the site should be reported to us for our review so that we can reassess potential environmental impacts and modify our recommendations, if necessary.

TABLES

TABLE 1
AFVR Event Data
 July 24-28, 2018
 Highway 11 Greenery
 Salem, Oconee County, SC
 SCDHEC LVI Permit #0439; Cost Agreement #57634
 BLE Project Number J18 10768-04

Date	Time (hh:mm)	Elapsed Time (hours)	Monitoring Well Gauging Data				Adjacent Well (03439-RW03)				AFVR Field Measurements					Air Emissions	
			AFVR Well Vacuum (in. of Hg)		AFVR Well Stinger Depths (feet base)		Depth to Free Product (feet base)		Depth to Groundwater (feet base)		Vacuum (in. of Hg)	Temperature (°F)	Relative Humidity (%)	Velocity (ft/min)	Airflow (CFM)	Influent (ppm)	Effluent (ppm)
			03439-RW05	03439-RW06	03439-RW05	03439-RW06	03439-RW05	03439-RW06	03439-RW05	03439-RW06							
7/24/2018	09:00	0.0	19.0	11.0	21.5	22.0	24.01	24.78	0.0	23.0	90	90.4	350	31	884.8	0.0	
7/24/2018	09:30	0.5	19.0	11.0	24.0	24.5	24.01	24.78	0.0	23.0	100	91.3	377	33	1,627.0	0.0	
7/24/2018	10:00	1.0	19.0	11.0	24.5	23.0	24.01	24.78	0.0	23.0	110	92.7	383	33	1,689.0	0.1	
7/24/2018	10:30	1.5	19.0	11.0	25.0	23.5	24.02	24.79	0.0	23.0	120	93.4	329	29	1,248.0	0.1	
7/24/2018	11:00	2.0	19.0	11.0	24.5	24.0	24.02	24.79	0.0	23.0	120	93.6	344	30	1,177.0	0.1	
7/24/2018	11:30	2.5	19.0	11.0	26.0	24.5	24.03	24.80	0.0	23.0	120	92.2	369	32	1,699.0	0.2	
7/24/2018	12:00	3.0	19.0	11.0	26.5	25.0	24.03	24.81	0.0	23.0	120	91.8	371	32	1,102.0	0.2	
7/24/2018	12:30	3.5	19.0	11.0	27.0	25.5	24.04	24.82	0.0	23.0	120	91.4	384	29	1,174.0	0.3	
7/24/2018	13:00	4.0	19.0	11.0	27.5	26.0	24.04	24.82	0.0	23.0	120	92.7	342	30	1,208.0	0.3	
7/24/2018	13:30	4.5	19.0	11.0	28.0	26.5	24.05	24.82	0.0	23.0	120	93.1	311	27	1,153.0	0.1	
7/24/2018	14:00	5.0	19.0	11.0	28.0	27.0	24.05	24.82	0.0	23.0	120	90.8	328	29	1,679.0	0.4	
7/24/2018	14:30	5.5	19.0	11.0	28.0	27.5	24.06	24.84	0.0	23.0	120	91.4	314	27	1,138.0	0.4	
7/24/2018	15:00	6.0	19.0	11.0	28.0	28.0	24.06	24.84	0.0	23.0	120	89.3	321	28	1,694.0	0.5	
7/24/2018	15:30	6.5	19.0	11.0	28.0	28.0	24.07	24.84	0.0	23.0	120	86.2	387	34	1,112.0	0.5	
7/24/2018	16:00	7.0	19.0	11.0	28.0	28.0	24.07	24.84	0.0	23.0	120	89.7	369	32	1,474.0	0.6	
7/24/2018	16:30	7.5	19.0	11.0	28.0	28.0	24.08	24.85	0.0	23.0	125	94.3	351	31	1,382.0	0.6	
7/24/2018	17:00	8.0	19.0	11.0	28.0	28.0	24.08	24.85	0.0	23.0	120	91.7	314	27	1,119.0	0.7	
7/24/2018	18:00	9.0	19.0	11.0	28.0	28.0	24.09	24.85	0.0	23.0	120	89.6	308	27	1,243.0	0.7	
7/24/2018	19:00	10.0	19.0	11.0	28.0	28.0	24.10	24.85	0.0	23.0	120	90.2	322	28	1,227.0	0.7	
7/24/2018	20:00	11.0	19.0	11.0	28.0	28.0	24.11	24.85	0.0	23.0	120	86.4	317	28	1,106.0	0.8	
7/24/2018	21:00	12.0	19.0	11.0	28.0	28.0	24.12	24.85	0.0	23.0	120	87.8	331	29	1,321.0	0.8	
7/24/2018	22:00	13.0	19.0	11.0	28.0	28.0	24.13	24.86	0.0	23.0	120	85.3	369	27	1,248.0	0.8	
7/24/2018	23:00	14.0	19.0	11.0	28.0	28.0	24.14	24.86	0.0	23.0	120	84.5	410	36	1,345.0	0.8	
7/24/2018	00:00	15.0	19.0	11.0	28.0	28.0	24.15	24.86	0.0	23.0	120	82.9	360	31	1,263.0	0.9	
7/24/2018	01:00	16.0	19.0	11.0	28.0	28.0	24.16	24.86	0.0	23.0	120	76.5	344	30	1,294.0	0.9	
7/24/2018	02:00	17.0	19.0	11.0	28.0	28.0	24.17	24.86	0.0	23.0	120	79.3	311	27	1,307.0	1.0	
7/24/2018	03:00	18.0	19.0	11.0	28.0	28.0	24.18	24.86	0.0	23.0	120	84.9	360	31	1,291.0	1.0	
7/24/2018	04:00	19.0	19.0	11.0	28.0	28.0	24.19	24.87	0.0	23.0	120	87.3	344	30	1,254.0	1.1	
7/24/2018	05:00	20.0	19.0	11.0	28.0	28.0	24.19	24.87	0.0	23.0	120	83.2	382	33	1,227.0	1.1	
7/24/2018	06:00	21.0	19.0	11.0	28.0	28.0	24.19	24.87	0.0	23.0	120	88.4	314	27	1,401.0	1.2	
7/24/2018	07:00	22.0	19.0	11.0	28.0	28.0	24.19	24.87	0.0	23.0	120	89.3	342	30	1,382.0	1.3	
7/24/2018	08:00	23.0	19.0	11.0	28.0	28.0	24.20	24.87	0.0	23.0	120	92.4	317	28	1,274.0	1.3	
7/24/2018	09:00	24.0	19.0	11.0	28.0	28.0	24.20	24.88	0.0	23.0	120	88.4	322	28	1,348.0	1.4	
7/24/2018	10:00	25.0	19.0	11.0	28.0	28.0	24.20	24.88	0.0	23.0	120	88.4	322	28	1,348.0	1.4	
7/24/2018	11:00	26.0	19.0	11.0	28.0	28.0	24.20	24.88	0.0	23.0	120	82.4	344	30	1,333.0	1.5	
7/24/2018	12:00	27.0	19.0	11.0	28.0	28.0	24.22	24.91	0.0	23.0	110	84.6	410	36	1,208.0	1.6	
7/24/2018	13:00	28.0	19.0	11.0	28.0	28.0	24.23	24.91	0.0	23.0	120	86.9	444	39	1,263.0	1.6	
7/24/2018	14:00	29.0	19.0	11.0	28.0	28.0	24.24	24.91	0.0	23.0	126	87.3	414	36	1,241.0	1.7	
7/24/2018	15:00	30.0	19.0	11.0	28.0	28.0	24.24	24.91	0.0	23.0	120	88.9	398	35	1,296.0	1.7	
7/24/2018	16:00	31.0	19.0	11.0	28.0	28.0	24.25	24.91	0.0	23.0	120	80.4	410	36	1,189.0	1.8	
7/24/2018	17:00	32.0	19.0	11.0	28.0	28.0	24.25	24.92	0.0	23.0	120	87.6	377	33	1,699.0	1.8	
7/24/2018	18:00	33.0	19.0	11.0	28.0	28.0	24.26	24.92	0.0	23.0	120	89.3	364	32	1,201.0	1.8	
7/24/2018	19:00	34.0	19.0	11.0	28.0	28.0	24.26	24.92	0.0	23.0	120	88.1	401	35	1,241.0	1.9	
7/24/2018	20:00	35.0	19.0	11.0	28.0	28.0	24.26	24.92	0.0	23.0	120	78.9	464	40	1,286.0	1.9	
7/24/2018	21:00	36.0	19.0	11.0	28.0	28.0	24.30	24.94	0.0	23.0	120	80.3	401	35	1,199.0	1.9	
7/24/2018	22:00	37.0	19.0	11.0	28.0	28.0	24.31	24.95	0.0	23.0	120	81.7	414	36	1,154.0	1.9	
7/24/2018	23:00	38.0	19.0	11.0	28.0	28.0	24.31	24.95	0.0	23.0	120	84.6	464	40	1,102.0	1.9	
7/24/2018	00:00	39.0	19.0	11.0	28.0	28.0	24.31	24.95	0.0	23.0	120	88.2	428	37	1,248.0	1.9	
7/24/2018	01:00	40.0	19.0	11.0	28.0	28.0	24.32	24.95	0.0	23.0	120	85.7	411	36	1,262.0	1.9	
7/24/2018	02:00	41.0	19.0	11.0	28.0	28.0	24.33	24.95	0.0	23.0	120	83.4	473	41	1,107.0	1.9	
7/24/2018	03:00	42.0	19.0	11.0	28.0	28.0	24.33	24.95	0.0	23.0	120	84.6	429	37	1,214.0	1.9	
7/24/2018	04:00	43.0	19.0	11.0	28.0	28.0	24.33	24.96	0.0	23.0	120	85.5	457	40	1,206.0	1.9	
7/24/2018	05:00	44.0	19.0	11.0	28.0	28.0	24.33	24.96	0.0	23.0	120	79.2	464	40	1,242.0	1.9	
7/24/2018	06:00	45.0	19.0	11.0	28.0	28.0	24.34	24.96	0.0	23.0	120	80.5	441	38	1,194.0	1.9	

Monitoring Well Number	Initial Depth to FFP (ft base)	Initial Depth to Water (ft base)	Initial FFP Thickness (ft)	Final Depth to FFP (ft base)	Final Depth to Water (ft base)	Final FFP Thickness (ft)	Water Level Change (ft)
03439-RW05	21.79	23.03	1.24	23.21	23.22	0.01	0.19
03439-RW06	20.45	21.60	1.15	NFPF	22.76	NFPF	1.16
03439-RW03	24.01	24.78	0.77	24.31	24.96	0.62	0.18

Notes: 4-inch diameter stack size
 base - below top of casing
 Vacuum concentrations measured with portable MiniRAE™ 3000 PID.
 PID - Photo-Ionization Detector
 Temperature and Relative Humidity measured with an Extech 45160 Thermo-Hygro-Anemometer.
 in. of Hg - inches of mercury
 ppm - parts per million
 Water Level Change (feet) = Final depth to water - initial depth to water
 NFPF - No Free Phase Product
 F - Falsedrain
 CFM - Cubic feet per minute
 FFP - Free-Phase Product

Recovery Information	
Total Volume of Water (gallons)	2,487
Total Volume of FFP (gallons)	5.9
Total Calculated Carbon Recovered as Emissions (pounds)	27.5
Total Calculated Gasoline Recovered as Emissions (pounds)	11.9
Total Calculated Gasoline Recovered as Emissions (gallons)	2.4

TABLE 2
AFVR Event Data
 July 30 - August 3, 2018
 Highway 11 Grocery
 Salma, Oconee County, SC
 SCDHEC LST Permit #0439; Cost Agreement 057634
 BLE Project Number J18 10768 04

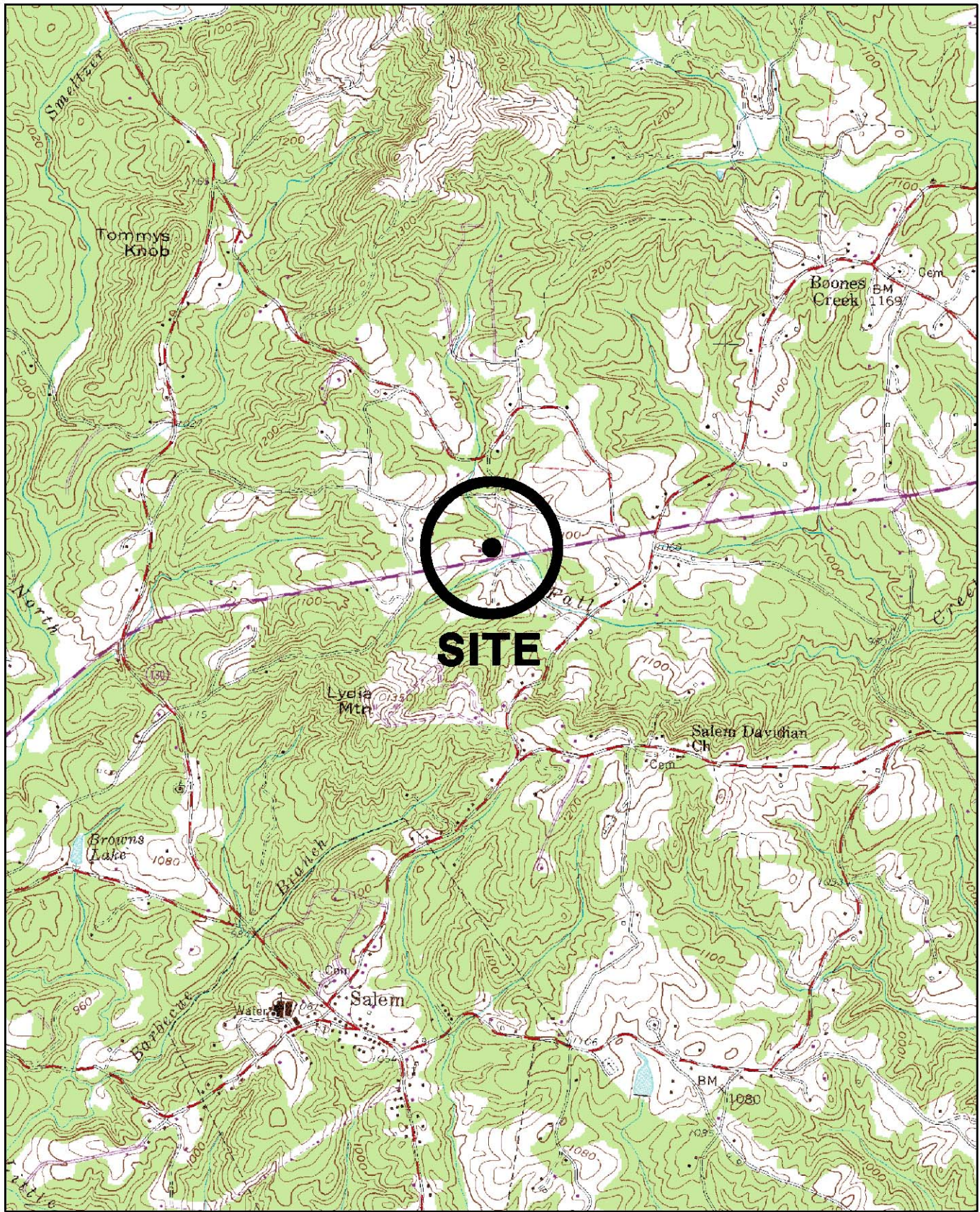
Date	Time (hh:mm)	Elapsed Time (hours)	Monitoring Well Gauging Data						AFVR Field Measurements				Air Emissions			
			AFVR Well Vacuum (in. of Hg)		AFVR Well Slinger Depths (feet base)		Adjacent Well Vacuum (in. of Hg)		Adjacent Well Water Levels (feet base)		Vacuum at Pump (in. Hg)	Temperature (°F)	Relative Humidity (%)	Velocity (ft/min)	Airflow (CFM)	Influent (ppm)
7/30/2018	07:00	0.0	20.0	19.0	19.0	0.0	0.0	20.78	21.03	21.0	110	95.6	496	43	2,693	1.1
7/30/2018	07:30	0.5	17.0	20.0	19.5	0.0	0.0	20.78	21.03	21.0	110	96.7	517	45	2,625	1.4
7/30/2018	08:00	1.0	17.0	20.0	20.0	0.0	0.0	20.78	21.04	21.0	110	92.6	496	43	2,692	1.1
7/30/2018	08:30	1.5	17.0	20.0	20.5	0.0	0.0	20.78	21.04	21.0	110	91.9	535	47	2,680	1.1
7/30/2018	09:00	2.0	17.0	20.0	21.0	0.0	0.0	20.78	21.04	21.0	112	87.6	543	47	2,590	1.2
7/30/2018	09:30	2.5	17.0	20.0	21.5	0.0	0.0	20.79	21.04	21.0	112	84.1	623	54	2,455	1.2
7/30/2018	10:00	3.0	17.0	20.0	22.0	0.0	0.0	20.79	21.05	21.5	112	82.9	551	48	2,315	1.2
7/30/2018	10:30	3.5	17.0	20.0	22.5	0.0	0.0	20.79	21.05	21.5	112	78.1	574	50	2,045	1.2
7/30/2018	11:00	4.0	18.5	20.0	23.0	0.0	0.0	20.79	21.06	25.0	116	82.7	470	41	1,936	1.2
7/30/2018	11:30	4.5	18.5	20.0	23.5	0.0	0.0	20.80	21.06	25.0	120	85.8	478	42	1,824	1.2
7/30/2018	12:00	5.0	19.0	20.0	24.0	0.0	0.0	20.81	21.07	25.0	120	87.5	430	38	1,799	1.3
7/30/2018	12:30	5.5	19.0	20.0	24.5	0.0	0.0	20.82	21.07	26.0	122	92.6	454	40	1,754	1.4
7/30/2018	13:00	6.0	19.0	20.0	25.0	0.0	0.0	20.82	21.07	27.0	122	94.5	440	38	1,767	1.5
7/30/2018	13:30	6.5	19.0	20.0	25.5	0.0	0.0	20.82	21.08	27.6	125	94.3	452	39	1,789	1.5
7/30/2018	14:00	7.0	19.0	20.0	26.0	0.0	0.0	20.82	21.08	28.6	125	93.8	484	42	1,942	1.5
7/30/2018	14:30	7.5	19.0	20.0	26.5	0.0	0.0	20.83	21.09	28.0	125	92.8	477	42	1,868	1.7
7/30/2018	15:00	8.0	19.0	20.0	27.0	0.0	0.0	20.83	21.11	28.0	120	90.7	432	38	1,744	1.7
7/30/2018	15:00	9.0	19.0	20.0	27.5	0.0	0.0	20.83	21.11	28.0	120	94.2	409	36	1,781	1.8
7/30/2018	15:00	10.0	19.0	20.0	28.0	0.0	0.0	20.83	21.11	28.0	120	91.6	414	36	1,754	1.9
7/30/2018	18:00	11.0	19.0	20.0	28.0	0.0	0.0	20.83	21.12	28.0	126	92.8	432	38	1,921	2.0
7/30/2018	19:00	12.0	19.0	20.0	28.0	0.0	0.0	20.83	21.12	28.0	120	92.4	476	42	2,018	2.2
7/30/2018	20:00	13.0	19.0	20.0	28.0	0.0	0.0	20.85	21.12	28.0	120	91.3	444	39	1,840	2.4
7/30/2018	21:00	14.0	19.0	20.0	28.0	0.0	0.0	20.85	21.13	28.0	120	94.4	483	42	1,721	2.6
7/30/2018	22:00	15.0	19.0	20.0	28.0	0.0	0.0	20.85	21.14	28.0	120	95.6	429	37	1,688	2.8
7/30/2018	23:00	16.0	19.0	20.0	28.0	0.0	0.0	20.85	21.14	28.0	120	93.7	436	38	1,662	3.6
7/31/2018	00:00	17.0	19.0	20.0	28.0	0.0	0.0	20.85	21.14	28.0	120	92.6	441	38	1,764	3.6
7/31/2018	07:00	24.0	19.0	20.0	28.0	0.0	0.0	20.85	21.16	28.0	120	94.5	464	40	1,696	3.7
7/31/2018	10:00	27.0	19.0	20.0	28.0	0.0	0.0	20.85	21.17	27.0	120	86.4	416	36	1,676	3.9
7/31/2018	12:00	29.0	19.0	20.0	28.0	0.0	0.0	20.86	21.17	27.0	120	87.7	404	35	1,654	4.0
7/31/2018	14:00	31.0	19.0	20.0	28.0	0.0	0.0	20.86	21.17	27.0	120	89.2	427	37	1,682	4.2
7/31/2018	16:00	33.0	19.0	20.0	28.0	0.0	0.0	20.86	21.18	28.0	120	91.4	486	42	1,764	4.4
7/31/2018	18:00	35.0	19.0	20.0	28.0	0.0	0.0	20.86	21.18	28.0	120	93.6	411	36	1,677	4.8
7/31/2018	20:00	37.0	19.0	20.0	28.0	0.0	0.0	20.86	21.18	28.0	120	91.4	439	38	1,656	5.0
7/31/2018	22:00	39.0	19.0	20.0	28.0	0.0	0.0	20.86	21.18	28.0	126	90.8	484	42	1,631	5.1
8/1/2018	00:00	40.0	19.0	20.0	28.0	0.0	0.0	20.87	21.20	28.0	120	78.4	414	36	1,601	5.9
8/1/2018	10:00	51.0	19.0	20.0	28.0	0.0	0.0	20.87	21.20	28.0	120	84.9	467	41	1,564	6.4
8/1/2018	12:00	53.0	19.0	20.0	28.0	0.0	0.0	20.87	21.21	28.0	120	88.7	444	39	1,547	6.7
8/1/2018	14:00	55.0	19.0	20.0	28.0	0.0	0.0	21.87	21.22	28.0	120	87.8	478	42	1,542	6.9
8/1/2018	16:00	57.0	19.0	20.0	28.0	0.0	0.0	21.88	21.23	28.0	120	91.4	492	43	1,571	7.2
8/1/2018	18:00	59.0	19.0	20.0	28.0	0.0	0.0	21.89	21.24	28.0	120	89.3	443	39	1,543	7.5
8/1/2018	20:00	61.0	19.0	20.0	28.0	0.0	0.0	21.90	21.25	28.0	120	90.6	426	37	1,562	7.8
8/1/2018	22:00	63.0	19.0	20.0	28.0	0.0	0.0	21.90	21.26	28.0	126	91.3	483	42	1,604	8.1
8/2/2018	00:00	65.0	19.0	20.0	28.0	0.0	0.0	21.92	21.27	28.0	120	90.7	471	41	1,566	8.4
8/2/2018	08:00	73.0	19.0	20.0	28.0	0.0	0.0	21.93	21.27	28.0	120	87.6	414	36	1,547	8.7
8/2/2018	10:00	75.0	19.0	20.0	28.0	0.0	0.0	21.93	21.27	28.0	126	88.7	429	37	1,532	8.9
8/2/2018	12:00	77.0	19.0	20.0	28.0	0.0	0.0	21.93	21.28	28.0	126	90.4	483	42	1,541	9.2
8/2/2018	14:00	79.0	19.0	20.0	28.0	0.0	0.0	21.93	21.28	28.0	120	91.3	462	40	1,521	9.4
8/2/2018	16:00	81.0	19.0	20.0	28.0	0.0	0.0	21.93	21.28	28.0	120	92.6	469	39	1,518	10.2
8/2/2018	18:00	83.0	19.0	20.0	28.0	0.0	0.0	21.93	21.28	28.0	120	91.7	483	42	1,527	10.4
8/2/2018	20:00	85.0	19.0	20.0	28.0	0.0	0.0	21.93	21.28	28.0	120	96.8	491	43	1,483	10.9
8/2/2018	22:00	87.0	19.0	20.0	28.0	0.0	0.0	21.93	21.28	28.0	120	91.2	472	41	1,492	11.2
8/3/2018	00:00	89.0	19.0	20.0	28.0	0.0	0.0	21.93	21.28	28.0	120	90.9	438	38	1,499	11.4
8/3/2018	07:00	96.0	19.0	20.0	28.0	0.0	0.0	21.93	21.28	28.0	120	90.3	463	40	1,508	11.5

Monitoring Well Number	Initial Depth to FFP (ft base)	Initial Depth to Water (ft base)	Initial FFP Thickness (ft)	Final Depth to FFP (ft base)	Final Depth to Water (ft base)	Final FFP Thickness (ft)	Water Level Change (ft)
03439-RW07	19.22	21.32	2.10	N/FPF	19.86	N/FPF	-1.46
03439-RW08	N/FPF	19.00	N/FPF	19.54	N/FPF	N/FPF	0.54
03439-RW06	N/FPF	21.03	N/FPF	21.28	N/FPF	N/FPF	0.25
03439-RW08	N/FPF	20.78	N/FPF	20.93	N/FPF	N/FPF	0.15

Notes: 4-inch diameter stack size
 base - below top of casing
 Vapor concentrations measured with portable MiniRAE™ 3000 PID.
 PID - Photo-Ionization Detector
 Temperature and Relative Humidity measured with an Estech 45160 Thermo-Hygro-Anemometer.
 in. of Hg - inches of mercury
 ppm - parts per million
 Water Level Change (feet) = Final depth to water - initial depth to water
 N/FPF - No Free Phase Product
 °F - Fahrenheit
 CFM - Cubic feet per minute
 FFP - Free-Phase Product

Recovery Information	
Total Volume of Water (gallons)	1,667
Total Volume of FFP (gallons)	0.0
Total Calculated Carbon Recovered as Emissions (pounds)	42.5
Total Calculated Gasoline Recovered as Emissions (pounds)	49.2
Total Calculated Gasoline Recovered as Emissions (gallons)	6.8

FIGURES



REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES,
SALEM, S.C. QUADRANGLE, PHOTOREVISED 1980.

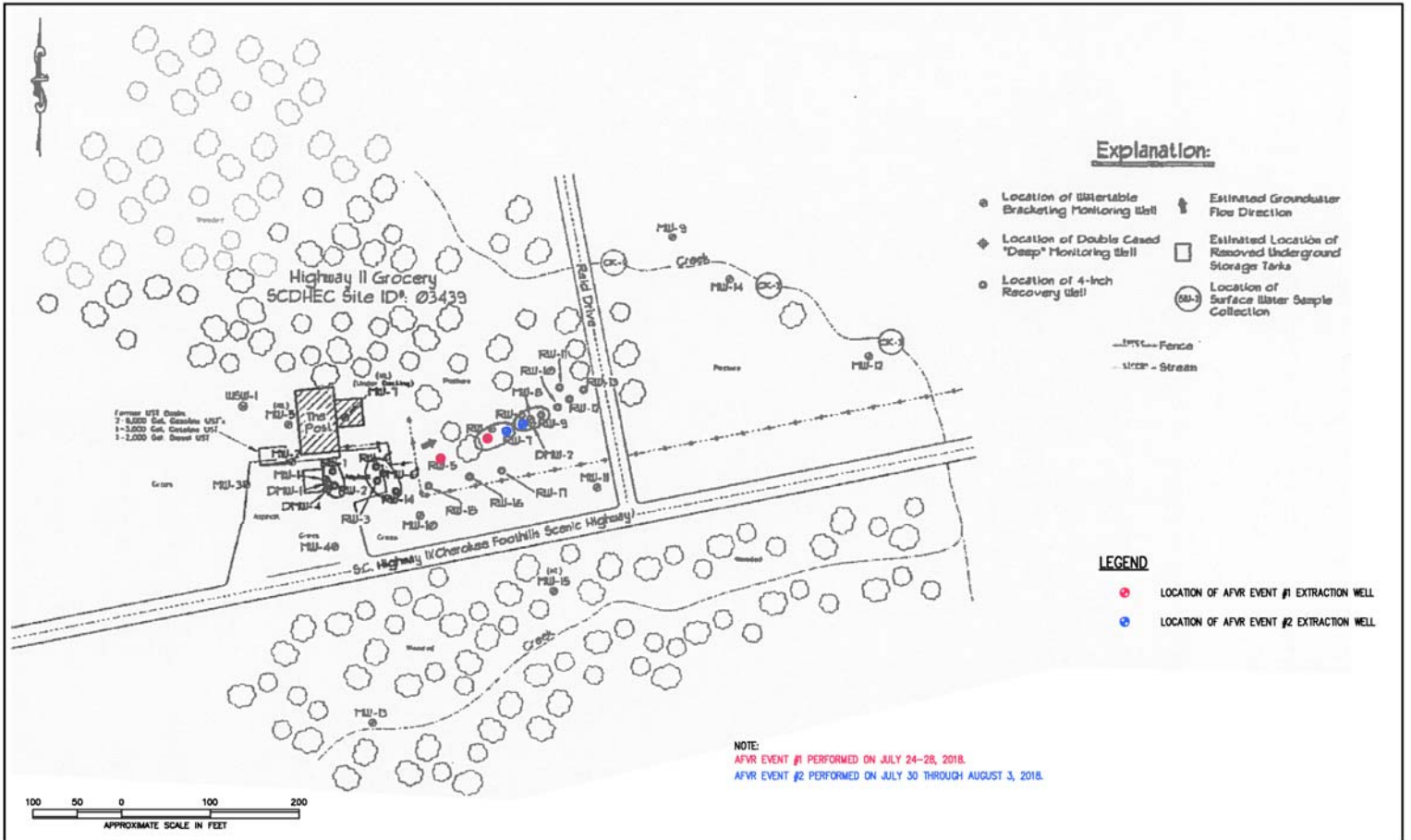
DRAWN: ACE	DATE: 9-5-18
CHECKED: TJB	CAD: FHwy11GROCERY-04SLM
APPROVED: TJB	JOB NO: J18-10769-04

BLE | BUNNELL
LAMMONS
ENGINEERING
6004 Ponders Court, Greenville, SC 29615
Phone: (854) 288-1265 Fax: (854) 288-4430

SITE LOCATION MAP
FORMER HIGHWAY 11 GROCERY
UST PERMIT #03439
13527 HIGHWAY 11 NORTH
SALEM, SOUTH CAROLINA

FIGURE

1



DRAWN BY: ACE	DATE: 9-5-18	REVISIONS		BY
CHECKED BY: TJB	FILE: FHWY11GROCERY-04AFVR	No.	DESCRIPTION	
APPROVED BY: TJB	JOB NO: J18-10769-04			

BLE BUNNELL
LAWMONS
ENGINEERS

6004 Ponders Court, Greenville, SC 29615
Phone: (864) 288-1250 Fax: (864) 288-4300

AFVR SITE PLAN
FORMER HIGHWAY 11 GROCERY
UST PERMIT #03439
13527 HIGHWAY 11 NORTH
SALEM, SOUTH CAROLINA

FIGURE
2

APPENDICES

APPENDIX A

WASTE DISPOSAL MANIFESTS



NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number ML 73018
------------------------------	------------------------	--------------	-----------------------------	--------------------------------------

5. Generator's Name and Mailing Address Bunnell Lammons 4004 Ponders Ct Greenville, SC 29615	Generator's Site Address (if different than mailing address) Amy II Grocery 13527 Amy II Salun, SC	UST# 03439
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6. Transporter 1 Company Name Phillips Recoveries	U.S. EPA ID Number SCR000794052
7. Transporter 2 Company Name	U.S. EPA ID Number

8. Designated Facility Name and Site Address 305 S. Main St Mauldin, SC 29002	U.S. EPA ID Number
---	--------------------

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Well water #23775	001	TT	4000	G
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Load 905A-935A

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/Offoror's Printed/Typed Name Brian K White	Signature [Signature]	Month 7	Day 30	Year 18
---	--------------------------	------------	-----------	------------

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name MITCH COTHRON	Signature [Signature]	Month 7	Day 30	Year 18
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

17. Discrepancy

17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

2,487 GALLONS BASED ON WEIGHT

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 Steven [Signature]	Signature [Signature]	Month 7	Day 30	Year 18
--	--------------------------	------------	-----------	------------

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

86100

SCALE TICKET

07/30/2018 11:22AM
Progressive 14909
Rcd I.D. 697
Inbound weight 52260 lb

07/30/2018 12:04PM
Progressive 14917
Rcd I.D. 697
Gross 52260 lb
Tare 31520 lb
Net 20740 lb

Scale Company: V/S

Weighed By: J.A.

Carrier: Phillips

Customer: ~~B&L~~ B+L

PO/BOL/Manifest _____

Tractor Number: 123

Trailer Number: 101

Driver Signature: Matt Cole

WHITE - Driver YELLOW - Driver CARD - Scale

NON-HAZARDOUS
WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number

081418-BL

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Bunnell Lamons
6004 Ponders Ct.
Greenville, SC 29615

Hwy 11 Gracery
13527 Hwy 11
Salem, SC VST # 03439

Generator's Phone:

6. Transporter 1 Company Name

Phillips Recoveries, Inc.

U.S. EPA ID Number

SR000704652

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

U.S. EPA ID Number

VLS
305 S. Main St.
Mauldin, SC 29062

Facility's Phone:

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

1.

Well water

001

2.

3.

4.

13. Special Handling Instructions and Additional Information

VB4

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

Signature

Month Day Year

Brian K White

on file

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

Signature

Month Day Year

Cassidy Smith

[Signature]

8 | 3 | 18

Transporter 2 Printed/Typed Name

Signature

Month Day Year

Walter Keith Sat

[Signature]

08 | 14 | 18

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

1,667 GALLONS BASED ON WEIGHT

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

F. Chappell

[Signature]

8 | 14 | 18

84300

SCALE TICKET

08/14/2018 01:02PM
Progressive 15969
Rcd I.D. 1678
Inbound weight 48280 lb

08/14/2018 01:43PM
Progressive 15977
Rcd I.D. 1678
Gross 48280 lb
Tare 34390 lb
Net 13900 lb

Scale Company: VLS

Weighed By: A.

Carrier: PRJ

Customer: Bunnell Lamont

PO/BOL/Manifest 08/14/18-BL

Tractor Number: 180

Trailer Number: AVH 106

Driver Signature: [Signature]

WHITE - Driver YELLOW - Driver CARD - Scale



CERTIFIED MAIL
9214 8969 0099 9790 1412 8955 40

SEP 26 2018

STEVE SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: Corrective Action Options
Hwy 11 Grocery, 13527 N Hwy 11, Salem, SC
UST Permit #03439
Release reported November 28, 2000
Aggressive Fluid Vapor Recovery report received September 10, 2018
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) reviewed the above-referenced report submitted by Bunnell-Lammons Engineering Inc on your behalf. This report, combined with site history, indicates active corrective action is necessary at the site to mitigate petroleum impact and ensure that there is no detrimental exposure to human health or the environment. While you, as the owner/operator, are ultimately responsible for cleanup actions taken in response to this release, funds from the State Underground Environmental Response Bank (SUPERB) Account and SUPERB Financial Responsibility Fund (SFRF) shall provide combined coverage for site rehabilitation and third party claims not to exceed one million dollars.

The SUPERB Site Rehabilitation and Fund Access Regulations R.61-98 require the UST owner/operator to develop and implement a reasonable, cost-effective corrective action to be performed by a DHEC certified site rehabilitation contractor. The selected technology must reduce the petroleum chemicals of concern concentrations to site-specific target levels that are determined by DHEC. As the owner/operator for the above-referenced release, you may choose one of two options discussed below to proceed toward meeting this requirement.

Option 1: Owner/Operator Lead

You may continue to use your existing DHEC Certified Site Rehabilitation Contractor of choice or select another contractor from the list found at <http://www.scdhec.gov/Environment/LW/UST/VendorsRecyclersContractors/Certified>

Contractors/ to perform the corrective action. To assist you in determining the clean-up technology, time frame, clean-up levels, and associated costs, DHEC will develop and provide you copies of a technical specifications package to send to DHEC certified contractors you may wish to utilize for this corrective action.

The maximum amount of allowable costs for the active correction action work that may be reimbursed by the SUPERB fund will be determined through a solicitation process. DHEC will post the technical specifications package for the active corrective action on the DHEC website

(<http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/CorrectiveActionSection/>) and will solicit bids from DHEC certified contractors to conduct the work by publishing a notice in the South Carolina Business Opportunities, a bi-weekly state government publication. This process is intended to ensure an adequate solicitation response is obtained so that a fair and competitive price for the work can be established. The low bid will determine the maximum amount the SUPERB fund will pay for the active corrective action.

You may consider entering a written contract with your selected contractor following completion of the solicitation process. DHEC would not be a party to the contract; however, we will monitor and ensure you are making progress with corrective action activities. If the selected contractor is not able to complete the required activities, you will be required to find another certified contractor to complete the required activities. Notably, should costs to complete this active corrective action work exceed the existing financial approval amount, no additional funding from the SUPERB Account may be allowed to complete this active corrective action work.

To utilize the owner/operator lead option, please sign and return the enclosed Owner/Operator Lead Form for Site Rehabilitation within 15 days of the date of this letter.

Option 2: State Lead

If you choose the state lead option, DHEC will procure a DHEC Certified Site Rehabilitation Contractor to perform active corrective action. The contractor for this work will enter into a contract with DHEC and will be subject to the terms and conditions of the bid document for which he or she was awarded the work. You would not be a party to the contract.

The awarded contractor will only be authorized to perform the active corrective action as defined by the bid document. Any work to be completed prior to the scope of work as defined by the bid document will be performed by your current contractor. Any work

to be performed after the completion of this active corrective action may be performed by your current contractor or by another DHEC certified contractor of your choosing.

As long as you do not interfere with or prohibit the work at your site, you will not be responsible for this active corrective action in the event the contractor does not perform appropriately or does not make satisfactory progress towards achieving the established corrective action goals.

To utilize the state lead option, please sign and return the enclosed State Lead Form for Site Rehabilitation within 15 days of the date of this letter.

We appreciate your prompt attention to this important matter. Please reference UST Permit #03439 on all correspondence or inquiries regarding this project. If you have any questions, please contact me at (803) 898-2832 or ageebd@dhec.sc.gov.

Sincerely,



Bryan Agee, Hydrogeologist
Corrective Action & Field Support
UST Management Division
Bureau of Land and Waste Management

enc: Owner/Operator Lead Form for Site Rehabilitation
State Lead Option Permission Form for Active Corrective Action

cc: Bunnell-Lammons Engineering Inc, 6004 Ponders Ct, Greenville, SC 29615
(w/enc)
Technical File (w/enc)



Owner/Operator Lead Form for Site Rehabilitation

Only complete this form if: You are the legal owner of the existing or former underground storage tanks, **OR** are the legal owner's designated authorized representative.

I certify that I am the legal owner of record for the underground storage tanks identified below for the release date reported below or serve as the authorized representative for the owner. I wish for DHEC to post the technical specifications package for the active corrective action on the DHEC website and solicit bids from DHEC certified contractors to conduct the work by publishing a notice in the South Carolina Business Opportunities and to select my own corrective action contractor after bid solicitation results are received. I understand the low bid will determine the maximum amount the SUPERB fund will pay for the active corrective action. **I understand if the selected contractor is not able to complete the required activities, I will be required to find another certified contractor to complete the required activities. No additional funding from the SUPERB Account may be allowed above the remainder of the existing financial approval amount to complete the remaining required activities.**

UST Permit #	03439	Release Report Date:	11/28/2000
Facility Name:	Hwy 11 Grocery		
Facility Address:	13527 N Hwy 11, Salem, SC 29676		
Facility Phone Number:			

Name of UST owner/former owner or authorized representative (Print):		
Signature of UST owner/former owner or authorized representative:		Date
Affiliation (if applicable)		
Signature of Witness		Date

Contact Info

Phone Numbers:	Home:	Cell:
Email Address:		



State Lead Option Permission Form for Active Corrective Action

Only complete this form if: You are the legal owner of the existing or former underground storage tanks, **OR** are the legal owner's designated authorized representative.

I certify that I am the legal owner of the existing or former underground storage tanks located identified below and for the release reported the date listed below or serve as the authorized representative for the UST owner. I grant permission to the South Carolina Department of Health and Environmental Control (DHEC) to post the technical specifications package for the active corrective action on the DHEC website and solicit bids from DHEC certified contractors to conduct the work by publishing a notice in the South Carolina Business Opportunities and to select a corrective action contractor, on my behalf, after bid solicitation results are received. The contractor will be designated as my contractor for only the required environmental site rehabilitation activities. I understand that DHEC or its contractor will be responsible for obtaining right-of-entry from the property owner and notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report.

UST Permit #	03439	Release Report Date:	11/28/2000
Facility Name:	Hwy 11 Grocery		
Facility Address:	13527 N Hwy 11, Salem, SC 29676		
Facility Phone Number:			
Is facility within city limits? (circle yes/no)	Yes	No	
Name of nearest intersecting street/road/highway:			
Does public water/sewer utility service this facility?	Yes	No	
<i>*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:</i>			
Name:	Phone Number:		
Were USTs previously removed from the ground at this facility?	Yes	No	
<i>*If yes, please provide the name/contact number of a person that can assist in the location of the former UST(s):</i>			
Name:	Phone Number:		
Is the facility currently leased to someone?	Yes	No	
<i>*If yes, notify them of the pending work scope, and please provide their name/contact number:</i>			
Name:	Phone Number:		

***Please note that if vehicles or other mobile structures are parked over the location of the existing or former USTs, they should be moved prior to DHEC's contractor mobilizes to the facility.**

Name of UST owner/former owner or authorized representative (Print):			
Signature of UST owner/former owner or authorized representative:		Date	
Affiliation (if applicable)			
Signature of Witness		Date	
Contact Info			
Phone Numbers:	Home:	Cell:	
Email Address:			



Healthy People. Healthy Communities.

STEVE SMITH
180 SHALLOW FORD RD
SALEM SC 29676

SEP 26 2018



Re: Site-Specific Work Plan (SSWP) Request for Groundwater Sampling
Hwy 11 Grocery, 13527 N Hwy 11, Salem, SC
UST Permit #03439
Release reported November 28, 2000
Aggressive Fluid Vapor Recovery report received September 10, 2018
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Management 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 (RBSLs).

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, 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 (ACQAP), and in compliance with all applicable regulations. A copy of the UST QAPP is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/>.

Groundwater samples should be collected from all monitoring wells and recovery wells associated with the above referenced release, and all water supply wells and surface waters within a 1,000 foot radius of the site and analyzed for BTEX, Naphthalene, MtBE, 1,2-DCA, the 8 oxygenates, and EDB.

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 regarding this site, please reference UST Permit number referenced above. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-2832, by fax at (803) 898-0673, or by e-mail at ageebd@dhec.sc.gov.

Sincerely,

Bryan Agee, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Bunnell-Lammons Engineering Inc, 6004 Ponders Ct, Greenville, SC 29615
Technical file

Document Receipt Information

Hard Copy

CD

Email

Date Received 10/22/2018
Permit Number 03439
Project Manager Bryan Agee
Name of Contractor ~~BLE~~ BLE
UST Certification Number SSWP - GW Sampling Event
Docket Number 91 Tech
Scanned _____



**BUNNELL
LAMMONS
ENGINEERING**

October 17, 2018

South Carolina Department of Health and Environmental Control
Underground Storage Tank Management Division
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Bryan Agee, Hydrogeologist

Subject: **Site Specific Work Plan – Groundwater Sampling Event
Highway 11 Grocery
13527 North Highway 11
Salem, Oconee County, South Carolina
UST Permit #03439
BLE Project No. J18-10768-05**

Dear Mr. Agee:

On behalf of Mr. Steve Smith, Bunnell-Lammons Engineering, Inc. (BLE) submits herein the completed Site Specific Work Plan (SSWP) for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) SSWP request dated September 26, 2018 for the implementation of a comprehensive groundwater sampling event at the subject site.

Please do not hesitate to contact us if you have any questions concerning this submittal.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Senior Hydrogeologist
Registered, South Carolina No. 2395

cc: Mr. Steve Smith, 180 Shallow Ford Road, Salem, South Carolina 29676



Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

To: Mr. Bryan Agee (SCDHEC Project Manager)
From: Mr. Trevor J. Benton, P.G. (Contractor Project Manager)
Contractor: Bunnell-Lammons Engineering, Inc. UST Contractor Certification Number: UCC-0010

Facility Name: Highway 11 Grocery UST Permit #: 03439
Facility Address: 13527 North Highway 11, Salem, South Carolina
Responsible Party: Mr. Steve Smith Phone:
RP Address: 180 Shallow Ford Road, Salem, South Carolina 29676
Property Owner (if different): Jocassee Recreation Center, LLC
Property Owner Address: P.O. Box 878, Pickens, South Carolina
Current Use of Property: Closed gas station

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), Mercury (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 1, Water Supply Wells 3, Air 3, Field Blank 3, Monitoring Wells 31, Surface Water 3, Duplicate 3, Trip Blank 2

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 #: 03439 Facility Name: Highway 11 Grocery

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 14 Field Work Completion: 45

Report Submittal: 75 # 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: 250 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/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

Sample existing monitoring wells MW-01 through MW-15, DMW-01, DMW-02, DMW-04, RW-01 through RW-13, water supply well WSW-01, and surface water locations CK-01, CK-02, and CK-03. Only wells not bracketing the water table will be purged prior to sampling. Purging will be conducted in accordance with BLE's Annual Contractor Quality Assurance Plan (ACQAP).

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: _____

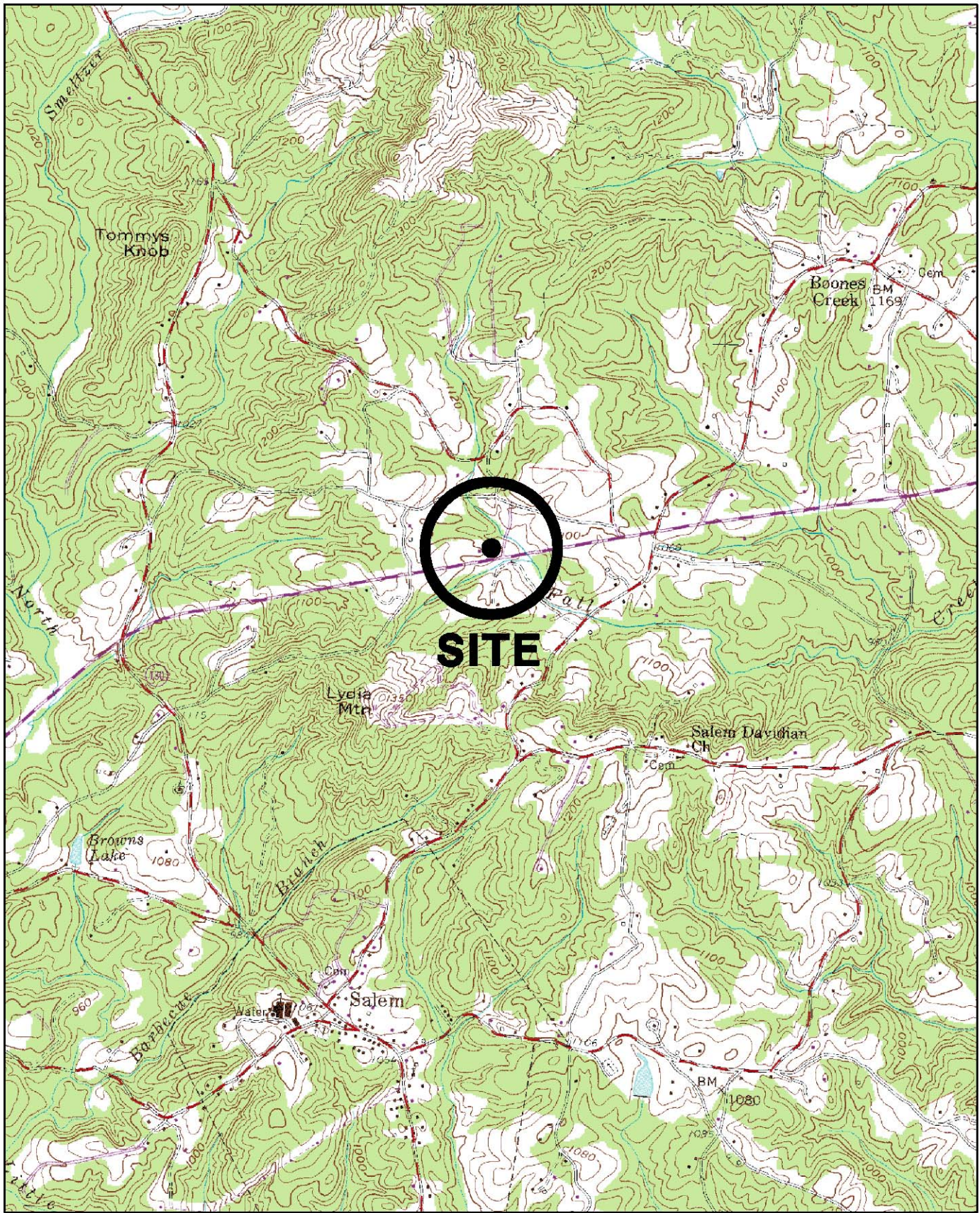
NO Other variations from ACQAP. Please describe below.

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	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

FIGURES



REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES,
SALEM, S.C. QUADRANGLE, PHOTOREVISED 1980.

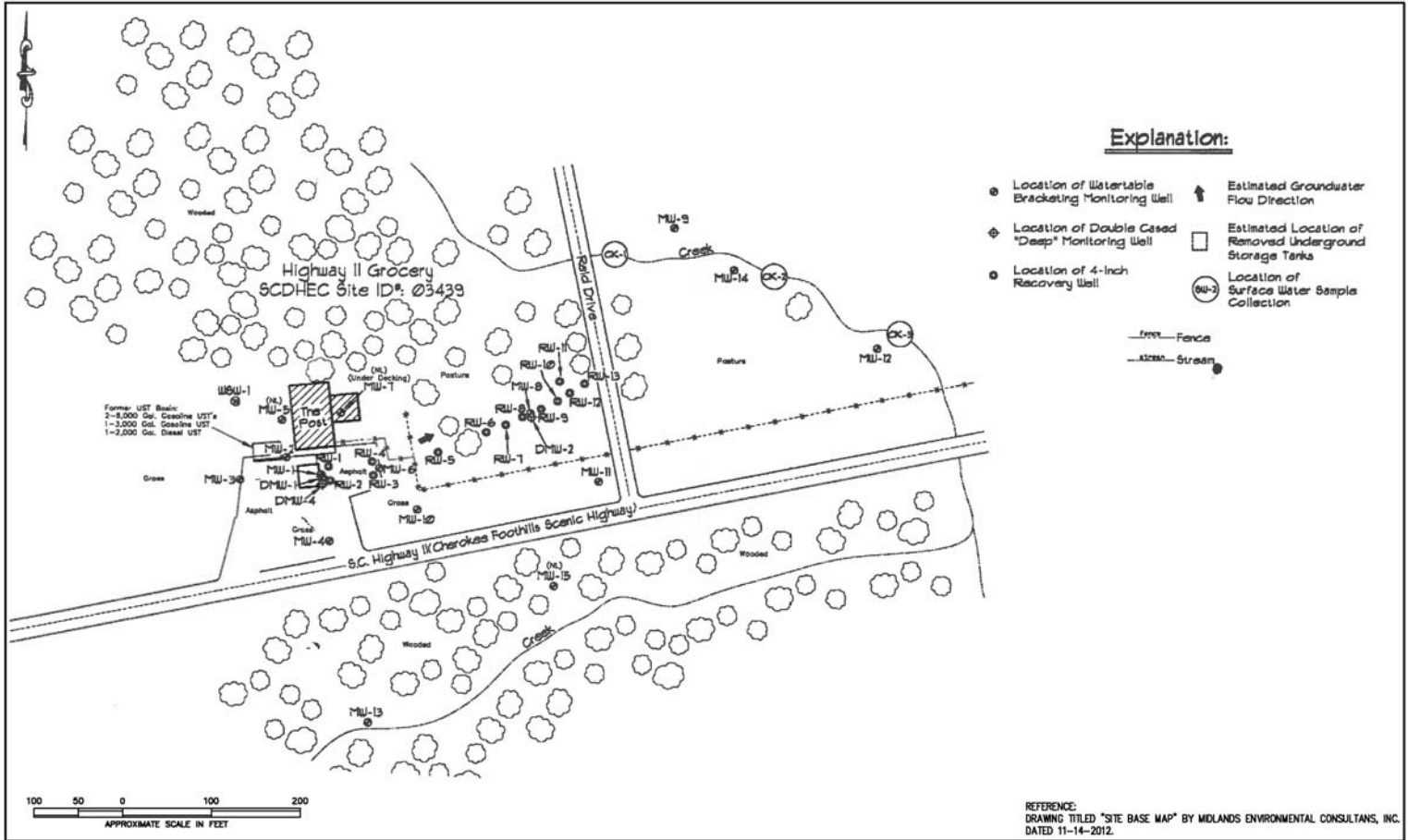
DRAWN: ACE	DATE: 10-17-18
CHECKED: TJB	CAD: FHWHY11GROCERY-05SLM
APPROVED:	JOB NO: J18-10769-05

BLE | **BUNNELL LAMMONS ENGINEERING**
 6004 Ponders Court, Greenville, SC 29615
 Phone: (854) 288-1255 Fax: (864) 288-4430

SITE LOCATION MAP
 FORMER HIGHWAY 11 GROCERY
 UST PERMIT #03439
 13527 HIGHWAY 11 NORTH
 SALEM, SOUTH CAROLINA

FIGURE

1



DRAWN BY: ACE	DATE: 10-17-18
CHECKED BY: TJB	FILE: FHWY11GROCERY-05SP
APPROVED BY:	JOB NO: J18-10769-05

REVISIONS		
No.	DESCRIPTION	BY

BLE | BUNNELL
LAMMONS
ENGINEERING
5004 Panders Court, Greenville, SC 29615
Phone: (864) 269-1265 Fax: (864) 269-4430

SITE PLAN
FORMER HIGHWAY 11 GROCERY
UST PERMIT #03439
13527 HIGHWAY 11 NORTH
SALEM, SOUTH CAROLINA

FIGURE
2

ASSESSMENT COMPONENT INVOICE



**ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA**

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
June 15, 2017

Facility Name: Highway 11 Grocery

UST Permit #: 03439 **Cost Agreement #:** _____

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. Plan Preparation				
A1. Site-specific Work Plan	1	each	\$150.00	\$150.00
B1. Tax Map		each	\$70.00	\$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	\$250.00	\$0.00
2. A1. Receptor Survey *		each	\$551.00	\$0.00
3. Survey (500 ft x 500 ft)				
A1. Comprehensive Survey		each	\$1,040.00	\$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	\$1,300.00	\$0.00
2B. > 10 meters below grade		each	\$2,310.00	\$0.00
C1. Geophysical UST or Drum Survey		each	\$910.00	\$0.00
4. Mob/Demob				
A1. Equipment		each	\$1,020.00	\$0.00
B1. Personnel	3	each	\$423.00	\$1,269.00
C1. Adverse Terrain Vehicle		each	\$500.00	\$0.00
5. A1. Soil Borings (hand auger)*		foot	\$5.00	\$0.00
6. Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)*				
AA. Standard		per foot	\$15.00	\$0.00
C1. Fractured Rock		per foot	\$20.20	\$0.00
7. A1. Soil Leachability Model		each	\$60.00	\$0.00
8. Abandonment (per foot)*				
A1. 2" diameter or less		per foot	\$3.10	\$0.00
B1. Greater than 2" to 6" diameter		per foot	\$4.50	\$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	\$15.00	\$0.00
9. Well Installation (per foot)*				
A1. Water Table (hand augered)		per foot	\$10.60	\$0.00
B1. Water Table (drill rig)		per foot	\$38.00	\$0.00
CC. Telescoping		per foot	\$50.00	\$0.00
DD. Rock Drilling		per foot	\$58.00	\$0.00
E1. 2" Rock Coring		per foot	\$30.90	\$0.00
G1. Rock Multi-sampling ports/screens		per foot	\$33.40	\$0.00
HH. Recovery Well (4" diameter)		per foot	\$45.00	\$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	\$15.00	\$0.00
J1. Rotosonic (2" diameter)		per foot	\$44.00	\$0.00
K. Re-develop Existing Well		per foot	\$11.00	\$0.00
10. Groundwater Sample Collection / Gauge Depth to Water or Product *				
A1. Groundwater Purge	3	per well/receptor	\$60.00	\$180.00
B1. Air or Vapors		per receptor	\$12.00	\$0.00
C1. Water Supply	1	per well/receptor	\$22.00	\$22.00
D1. Groundwater No Purge or Duplicate	34	per well/receptor	\$28.00	\$952.00
E1. Gauge Well only		per well	\$7.00	\$0.00
F1. Sample Below Product		per well	\$12.00	\$0.00
G1. Passive Diffusion Bag		each	\$26.00	\$0.00
H1. Field Blank	3	each	\$24.60	\$73.80
I. Groundwater (low flow purge)		per well/receptor	\$91.00	\$0.00

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	39	per sample	\$122.00		\$4,758.00
AA1. Lead, Filtered		per sample	\$13.80		\$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	\$153.60		\$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$36.40		\$0.00
D1. PAH's		per sample	\$60.60		\$0.00
E1. Lead		per sample	\$16.00		\$0.00
F1. EDB by EPA 8011	38	per sample	\$45.20		\$1,717.60
FF1. EDB by EPA Method 8011 Rush		per sample	\$68.20		\$0.00
G1. 8 RCRA Metals		per sample	\$63.40		\$0.00
H1. TPH (9070)		per sample	\$41.00		\$0.00
II. pH		per sample	\$5.20		\$0.00
J1. BOD		per sample	\$20.00		\$0.00
PP. Ethanol		per sample	\$14.80		\$0.00
11. Analyses-Drinking Water					
L. BTEXNM+1,2 DCA (524.2)	4	per sample	\$124.05		\$496.20
M. 7-OXYGENATES & ETHANOL (8260B)	4	per sample	\$91.75		\$367.00
N. EDB (504.1)	3	per sample	\$79.50		\$238.50
O. RCRA METALS (200.8)		per sample	\$100.00		\$0.00
11. Analyses-Soil					
Q1. BTEX + Naphth.		per sample	\$64.00		\$0.00
R1. PAH's		per sample	\$64.04		\$0.00
S1. 8 RCRA Metals		per sample	\$56.40		\$0.00
U1. TPH-DRO (3550C/8015C)		per sample	\$40.00		\$0.00
V1. TPH- GRO (5030B/8015C)		per sample	\$35.96		\$0.00
W1. Grain size/hydrometer		per sample	\$104.00		\$0.00
X1. Total Organic Carbon		per sample	\$30.60		\$0.00
11. Analyses-Air					
Y1. BTEX + Naphthalene		per sample	\$216.00		\$0.00
11. Analyses-Free Phase Product					
Z1. Hydrocarbon Fuel Identification		per sample	\$357.00		\$0.00
12. Aquifer Characterization					
A1. Pumping Test*		per hour	\$23.00		\$0.00
B1. Slug Test*		per test	\$191.00		\$0.00
C1. Fractured Rock		per test	\$100.00		\$0.00
13. A1. Free Product Recovery Rate Test*		each	\$38.00		\$0.00
14. Fate/Transport Modeling					
A1. Mathematical Model		each	\$100.00		\$0.00
B1. Computer Model		each	\$100.00		\$0.00
15. Risk Evaluation					
A. Tier I Risk Evaluation		each	\$300.00		\$0.00
B1. Tier II Risk Evaluation		each	\$100.00		\$0.00
16. A1. Subsequent Survey*		each	\$260.00		\$0.00
17. Disposal (gallons or tons)*					
AA. Wastewater	250	gallon	\$0.56		\$140.00
BB. Free Product		gallon	\$0.50		\$0.00
C1. Soil Treatment/Disposal		ton	\$60.00		\$0.00
D1. Drilling fluids		gallon	\$0.42		\$0.00
18. Miscellaneous (attach receipts)					
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
20. Tier I Assessment (Use DHEC 3665 form)		standard			\$0.00
21. IGWA (Use DHEC 3666 form)		standard			\$0.00
22. Corrective Action (Use DHEC 3667 form)		PPF Bid			\$0.00

23. Aggressive Fluid & Vapor Recovery (AFVR)					
A1. 8-hour Event*		each	\$1,375.00		\$0.00
AA. 24-hour Event*		each	\$3,825.00		\$0.00
A3. 48-hour Event*		each	\$6,265.00		\$0.00
A4. 96-hour Event*		each	\$12,567.50		\$0.00
C1. Off-gas Treatment 8 hour		per event	\$122.50		\$0.00
C2. Off-gas Treatment 24 hour		per event	\$241.50		\$0.00
C3. Off-gas Treatment 48 hour		per event	\$327.00		\$0.00
C4. Off-gas Treatment 96 hour		per event	\$780.00		\$0.00
D. Site Reconnaissance		each	\$203.25		\$0.00
E1. Additional Hook-ups		each	\$25.75		\$0.00
F1. Effluent Disposal		gallon	\$0.44		\$0.00
G. AFVR Mobilization/Demobilization		each	\$391.50		\$0.00
24. Granulated Activated Carbon (GAC) filter system installation & service:					
A1. New GAC System Installation*		each	\$1,900.00		\$0.00
BB. Refurbished GAC Sys. Install*		each	\$900.00		\$0.00
C1. Filter replacement/removal*		each	\$350.00		\$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	\$275.00		\$0.00
E1. GAC System housing*		each	\$250.00		\$0.00
F. In-line particulate filter		each	\$150.00		\$0.00
G1. Additional piping & fittings		foot	\$1.50		\$0.00
25. Well Repair					
A1. Additional Copies of the Report Delivered		each	\$50.00		\$0.00
B1. Repair 2x2 MW pad*		each	\$50.00		\$0.00
C1. Repair 4x4 MW pad*		each	\$88.00		\$0.00
D1. Repair well vault*		each	\$118.00		\$0.00
F1. Replace well cover bolts		each	\$2.60		\$0.00
G. Replace locking well cap & lock		each	\$15.00		\$0.00
H1. Replace/Repair stick-up*		each	\$134.00		\$0.00
II. Convert Flush-mount to Stick-up*		each	\$150.00		\$0.00
J1. Convert Stick-up to Flush-mount*		each	\$130.00		\$0.00
K1. Replace missing/illegible well ID plate		each	\$12.00		\$0.00
Report Prep & Project Management	12%	percent	\$10,364.10		\$1,243.69
TOTAL					\$11,607.79

DHEC 2495 6-2017 *The appropriate mobilization cost can be added to complete these tasks, as necessary



OCT 30 2018



STEVE SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: Site-Specific Work Plan (SSWP) Approval and Groundwater Sampling Notice to Proceed (NTP)
Hwy 11 Grocery, 13527 N Hwy 11, Salem, SC
UST Permit #03439; CA #58050
Release Reported November 28, 2000
SSWP and cost proposal received October 22, 2018
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced SSWP submitted by your contractor. All work should 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 (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/>

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 the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.

The Monitoring report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the Division within sixty (60) days of the date of this correspondence. The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. 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 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 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 an DHEC-certified site rehabilitation contractor as required by R.61-98.

The 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 UST Permit #03439. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-2832, by fax at (803) 898-0673, or by e-mail at ageebd@dhec.sc.gov.

Sincerely,



Bryan Agee, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement (ACA)

cc: Bunnell-Lammons Engineering Inc, 6004 Ponders Ct, Greenville, SC 29615 (w/enc.)
Technical file (with enc.)

Approved Cost Agreement 58050

Facility: 03439 HWY 11 GROCERY

AGEEBD

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
01 PLAN		A1 SITE SPECIFIC WORK PLAN	1.0000	\$150.000	150.00
04 MOB/DEMOB		B1 PERSONNEL	3.0000	\$423.000	1,269.00
10 SAMPLE COLLECTION		A1 GROUNDWATER (PURGE)	3.0000	\$60.000	180.00
		C1 WATER SUPPLY	1.0000	\$22.000	22.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	34.0000	\$28.000	952.00
		H1 FIELD BLANK	3.0000	\$24.600	73.80
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	39.0000	\$122.000	4,758.00
		F1 EDB BY 8011	38.0000	\$45.200	1,717.60
	WATER DRINKING WATER	L BTEXNM+1,2 DCA (524.2)	4.0000	\$124.050	496.20
		M 7-OXYGENATES & ETHANOL (8260B)	4.0000	\$91.750	367.00
		N EDB (504.1)	3.0000	\$79.500	238.50
17 DISPOSAL		AA WASTEWATER	250.0000	\$0.560	140.00
19 RPT/PROJECT MNGT & COORDINATIO		PRT REPORT PREPARATION	0.1200	\$10,364.100	1,243.69
Total Amount					11,607.79

Document Receipt Information

Hard Copy

CD

Email

Date Received 4-5-2019

Permit Number 03439

Project Manager Bryan Agee

Name of Contractor BLE Inc

UST Certification Number Report GWS - feb 2019

Docket Number 93 Tech

Scanned _____

REPORT OF COMPREHENSIVE GROUNDWATER SAMPLING EVENT – FEBRUARY 2019

FORMER HIGHWAY 11 GROCERY
13527 NORTH HIGHWAY 11
SALEM, OCONEE COUNTY, SOUTH CAROLINA
UST PERMIT #03439; COST AGREEMENT #58050

Prepared For:
Mr. Steve Smith
180 Shallow Ford Road
Oconee, South Carolina 29676

SCDHEC Certified Contractor No. UCC-0010
BLE Project Number J18-10768-05

April 2, 2019



**BUNNELL
LAMMONS
ENGINEERING**

6004 Ponders Court | Greenville, SC 29615
☎ 864.288.1265 📠 864.288.4330 ✉ info@blecorp.com
BLECORP.COM



**BUNNELL
LAMMONS
ENGINEERING**

April 2, 2019

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
Underground Storage Tank Management Division
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Bryan Agee, Hydrogeologist

Subject: **Report of Comprehensive Groundwater Sampling Event – February 2019**
Former Highway 11 Grocery
13527 North Highway 11
Salem, Oconee County, South Carolina
UST Permit #03439; Cost Agreement #58050
BLE Project No. J18-10768-05

Dear Mr. Agee:

On behalf of Mr. Steve Smith, Bunnell-Lammons Engineering, Inc. (BLE) has completed a comprehensive groundwater sampling event at the subject site. This scope of work was performed in response to a South Carolina Department of Health and Environmental Control (SCDHEC) directive dated October 30, 2018 and in accordance with BLE's Site Specific Work Plan (SSWP) submitted on October 17, 2018. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Peter J. Wylie
Environmental Scientist

Trevor J. Benton, P.G.
Senior Hydrogeologist
Registered, South Carolina No. 2395



cc: Mr. Steve Smith, 180 Shallow Ford Road, Salem, South Carolina 29676



1.0 BACKGROUND INFORMATION

The subject property is located at 13527 North Highway 11 in Salem, Oconee County, South Carolina (**Figure 1**). The site is currently utilized for residential and commercial office purposes; however, a convenience store/petroleum retail facility formerly operated on the property consisting of four underground storage tanks (USTs) (two 6,000-gallon gasoline USTs, one 3,000-gallon gasoline UST, and one 2,000-gallon diesel UST) and associated piping and fueling dispensers. According to the SCDHEC UST registry, the four USTs were abandoned by removal on September 15, 2009. A release at the subject site was reported and confirmed to the SCDHEC on November 28, 2000.

In response to the reported release, various environmental assessment activities have been conducted, including the installation of 18 groundwater monitoring wells and 17 groundwater recovery wells. The most recent environmental activities include the performance of two 96-hour aggressive fluid vapor recovery (AFVR) events from July 24, 2018 to August 3, 2018, to address the presence of free-product in several wells at the site.

In an effort to evaluate the effectiveness of the most recent AFVR events and determine what risk the petroleum release may pose to human health and the environment, the SCDHEC requested an updated comprehensive groundwater sampling event be conducted at the facility. Details of the groundwater sampling event and our findings are provided herein.



2.0 GROUNDWATER SAMPLING

Date Sampled:	February 13-14, 2019	
Total Number of Wells Associated with Site:	35	MW-01 through MW-15, DMW-01, DMW-02, DMW-04, and RW-01 through RW-17.
Total Number of Wells Sampled:	24	MW-02, MW-03, MW-04, MW-08 through MW-15, DMW-01, DMW-02, DMW-04, RW-1, RW-3, RW-8 through RW-13, RW-16, and RW-17
Total Number of Wells NOT Sampled:	11	MW-05, MW-07 (Not Located); and MW-01, MW-06, RW-02, RW-04 through RW-07, RW-14 and RW-15 (Free Product)
Water Supply Wells Sampled	1	WW-01
Surface Water Locations Sampled	4	CK-01 through CK-04
QA / QC Samples	8	3 Duplicate Samples (MW-08 DUP, RW-10 DUP, and WW-01 DUP), 3 Field Blanks, and 2 Trip Blanks
Total Purge Volume (gallons)	84	Disposal Manifest Included in Appendix A
Analytical Laboratory	Shealy Environmental Services, Inc.	
Analytical Methods	EPA Method 8260B, EPA Method 8011, EPA Method 524.2, and EPA Method 504.1	
Free-Phase Petroleum Product	MW-01 (0.02-feet), MW-06 (0.01-feet), RW-02 (0.03-feet), RW-04 (0.01-feet), RW-05 (0.20-feet), RW-06 (1.09-feet), RW-07 (1.30-feet), RW-14 (2.36-feet) and RW-15 (0.09-feet)	
Contaminants Exceeding Risk Based Screening Level Concentrations	Benzene, Toluene, Ethylbenzene, Xylenes, Methyl Tertiary Butyl Ether (MTBE), Naphthalene, Tert-Amyl Methyl Ether (TAME), Tert-Amyl Alcohol (TAA), Diisopropyl Ether (IPE)	
Groundwater Level Measurements	See Table 1	
Groundwater Sampling Logs and Procedures	See Appendix B	



Laboratory Analytical Summary	See Table 2A and Table 2B
Laboratory Analytical Results	See Appendix C
Potentiometric Map	See Figure 2
CoC Map	See Figure 3

3.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the current laboratory analytical results, the horizontal extent of the contaminant plume does not appear to be defined in the downgradient direction. Additionally, free-phase petroleum product and/or chemicals of concern (CoC) at or above effective solubility limits for gasoline constituents, were identified in wells MW-01, MW-06, MW-08, RW-01, RW-02, RW-04, RW-05, RW-06, RW-07, RW-08, RW-11, RW-14, RW-15, and RW-16. CoC concentrations were also detected in surface water sample locations CK-01 through CK-03; however, the detected concentrations were below their respective RBSLs.

In an effort to fully delineate the groundwater contaminant plume, we recommend a groundwater screening assessment be conducted to the north and east of the current recovery well network. Upon receipt of the field screening data, we recommend the installation of shallow monitoring wells to supplement the existing network and to define the extent of the groundwater contaminant plume (**Figure 4**).

In conjunction with the groundwater screening assessment and monitoring well installations, we recommend a series of three 96-Hour AFVR events be conducted on the aforementioned monitoring and recovery wells in order to: 1) remove residual free-phase petroleum product from the area around the extraction points, 2) remove petroleum hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater from the subsurface.

At least 30 days following the final AFVR event, we recommend a comprehensive groundwater sampling event be performed to evaluate the effectiveness of the events, obtain current CoC concentration data, and to establish CoC concentration trends.



4.0 QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Mr. Steve Smith. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

TABLES

TABLE 1

MONITORING WELL AND GROUNDWATER ELEVATION DATA

Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J18-10768-05

Well ID	Date	Top of Casing Elevation	Free-Product Thickness	Groundwater Depth (btoc)	Groundwater Elevation	Well Depth	Screen Depth	Screen Elevation
03439-MW01	5/8/2002	103.38	---	24.67	78.71	30.00	15.0 - 30.0	88.38 - 73.38
	7/1/2003		---	23.28	80.10			
	7/30/2003		---	22.89	80.49			
	9/15/2003		---	23.78	79.60			
	2/13/2019		0.02	22.84	80.54			
03439-MW02	5/8/2002	104.85	---	26.08	78.77	35.00	20.0 - 35.0	84.85 - 69.85
	7/1/2003		---	24.08	80.77			
	7/30/2003		---	23.78	81.07			
	9/15/2003		---	24.73	80.12			
	2/13/2019		---	24.00	80.85			
03439-MW03	5/8/2002	104.89	---	24.78	80.11	30.00	15.0 - 30.0	89.89 - 74.89
	7/1/2003		---	22.51	82.38			
	7/30/2003		---	22.21	82.68			
	9/15/2003		---	23.23	81.66			
	2/13/2019		---	22.65	82.24			
03439-MW04	5/8/2002	99.90	---	23.38	76.52	35.00	20.0 - 35.0	79.90 - 64.90
	7/1/2003		---	22.10	77.80			
	7/30/2003		---	22.09	77.81			
	9/15/2003		---	22.90	77.00			
	2/13/2019		---	21.00	78.90			
03439-MW05	5/8/2002	106.06	---	28.82	77.24	35.00	20.0 - 35.0	86.06 - 71.06
	7/1/2003		---	26.82	79.24			
	7/30/2003		---	26.53	79.53			
	9/15/2003		---	27.40	78.66			
	2/13/2019		Well Not Located					
03439-MW06	5/8/2002	100.00	---	21.66	78.34	35.00	20.0 - 35.0	80.00 - 65.00
	7/1/2003		---	19.77	80.23			
	7/30/2003		---	19.88	80.12			
	9/15/2003		---	20.63	79.37			
	2/13/2019		0.01	19.76	80.24			
03439-MW07	5/8/2002	103.66	---	28.12	75.54	40.00	25.0 - 40.0	78.66 - 63.66
	7/1/2003		---	26.55	77.11			
	7/30/2003		---	26.22	77.44			
	9/15/2003		---	26.83	76.83			
	2/13/2019		Well Not Accessible					
03439-MW08	5/8/2002	86.51	0.06	21.00	65.51	30.00	15.0 - 30.0	71.51 - 56.51
	7/1/2003		0.60	20.96	65.55			
	7/30/2003		0.20	20.46	66.05			
	9/15/2003		0.15	21.17	65.34			
	2/13/2019		---	19.89	66.62			
03439-MW09	5/8/2002	58.39	---	2.47	55.92	10.00	2.0 - 10.0	56.39 - 48.39
	7/1/2003		---	2.30	56.09			
	7/30/2003		---	2.26	56.13			
	9/15/2003		---	2.42	55.97			
	2/13/2019		---	2.04	56.35			
03439-MW10	5/8/2002	93.78	---	20.04	73.74	28.00	13.0 - 28.0	80.78 - 65.78
	7/1/2003		---	16.20	77.58			
	7/30/2003		---	18.95	74.83			
	9/15/2003		---	16.53	77.25			
	2/13/2019		---	17.68	76.10			
03439-MW11	5/8/2002	83.20	---	16.86	66.34	23.00	8.0 - 23.0	75.20 - 60.20
	7/1/2003		---	15.93	67.27			
	7/30/2003		---	15.92	67.28			
	9/15/2003		---	16.21	66.99			
	2/13/2019		---	14.69	68.51			

TABLE 1

MONITORING WELL AND GROUNDWATER ELEVATION DATA

Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J18-10768-05

Well ID	Date	Top of Casing Elevation	Free-Product Thickness	Groundwater Depth (btoc)	Groundwater Elevation	Well Depth	Screen Depth	Screen Elevation
03439-MW12	5/8/2002	58.69	---	3.12	55.57	12.00	2.0 - 12.0	56.69 - 46.69
	7/1/2003		---	3.10	55.59			
	7/30/2003		---	3.02	55.67			
	9/15/2003		---	3.19	55.50			
	2/13/2019		---	2.35	56.34			
03439-MW13	5/8/2002	77.91	---	6.52	71.39	12.00	2.0 - 12.0	75.91 - 65.91
	7/1/2003		---	6.44	71.47			
	7/30/2003		---	6.28	71.63			
	9/15/2003		---	6.62	71.29			
	2/13/2019		---	5.84	72.07			
03439-MW14	5/8/2002	59.19	---	2.14	57.05	10.00	2.0 - 10.0	57.19 - 49.19
	7/1/2003		---	1.92	57.27			
	7/30/2003		---	1.77	57.42			
	9/15/2003		---	2.03	57.16			
	2/13/2019		---	1.26	57.93			
03439-MW15	5/8/2002	71.52	---	10.61	60.91	9.00	4.0 - 9.0	67.52 - 62.52
	7/1/2003		---	10.83	60.69			
	7/30/2003		---	10.67	60.85			
	9/15/2003		---	11.02	60.50			
	2/13/2019		---	10.45	61.07			
03439-DMW01	5/8/2002	103.27	---	24.68	78.59	45.00	40.0 - 45.0	63.27 - 58.27
	7/1/2003		---	22.97	80.30			
	7/30/2003		---	22.72	80.55			
	9/15/2003		---	23.61	79.66			
	10/2/2003		---	24.11	79.16			
	10/23/2003		---	24.50	78.77			
	12/18/2003		---	24.00	79.27			
	3/31/2004		---	24.60	78.67			
	2/14/2008		---	26.18	77.09			
	4/27/2010		---	24.12	79.15			
	12/13/2010		---	26.45	76.82			
	5/14/2013		---	23.98	79.29			
	10/2/2017		---	25.87	77.40			
	2/13/2019		---	22.80	80.47			
03439-DMW02	5/8/2002	86.21	---	17.22	68.99	75.00	70.0 - 75.0	16.21 - 11.21
	7/1/2003		---	16.44	69.77			
	7/30/2003		---	16.49	69.72			
	9/15/2003		---	15.75	70.46			
	10/2/2003		---	17.11	69.10			
	10/23/2003		---	17.63	68.58			
	12/18/2003		---	16.80	69.41			
	3/31/2004		---	17.31	68.90			
	2/14/2008		---	20.86	65.35			
	4/27/2010		---	24.20	62.01			
	12/13/2010		---	17.85	68.36			
	5/14/2013		---	16.31	69.90			
	10/2/2017		---	16.81	69.40			
	2/13/2019		---	15.56	70.65			

TABLE 1

MONITORING WELL AND GROUNDWATER ELEVATION DATA

Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J18-10768-05

Well ID	Date	Top of Casing Elevation	Free-Product Thickness	Groundwater Depth (btoc)	Groundwater Elevation	Well Depth	Screen Depth	Screen Elevation
03439-DMW04	5/8/2002	103.22	---	25.08	78.14	60.00	54.7 - 59.7	48.52 - 43.52
	7/1/2003		---	23.32	79.90			
	7/30/2003		---	23.18	80.04			
	9/15/2003		---	23.88	79.34			
	10/2/2003		---	24.39	78.83			
	10/23/2003		---	24.95	78.27			
	12/18/2003		---	24.45	78.77			
	3/31/2004		---	24.95	78.27			
	2/14/2008		---	26.44	76.78			
	4/27/2010		---	24.41	78.81			
	12/13/2010		---	26.90	76.32			
	5/14/2013		---	24.30	78.92			
	10/2/2017		---	26.45	76.77			
2/13/2019	---	23.12	80.10					
03439-RW01	12/13/2010	103.29	---	26.65	76.64	30.00	10.0 - 30.0	93.29 - 73.29
	5/14/2013		0.04	NA	NA			
	10/2/2017		---	25.98	77.31			
	2/13/2019		---	22.99	80.30			
03439-RW02	12/13/2010	102.85	0.02	NA	NA	30.00	9.7 - 29.7	93.15 - 73.15
	5/14/2013		0.30	NA	NA			
	10/2/2017*		0.61	25.21	77.64			
	2/13/2019*		0.03	22.27	80.58			
03439-RW03	12/13/2010	100.25	---	23.68	76.57	30.00	10.0 - 30.0	90.25 - 70.25
	5/14/2013		---	21.11	79.14			
	10/2/2017		Well Dry at Time of Sampling Event					
	2/13/2019		---	20.13	80.12			
03439-RW04	12/13/2010	101.00	---	24.34	76.66	30.00	9.7 - 29.7	91.30 - 71.30
	5/14/2013		---	10.85	90.15			
	10/2/2017		---	23.69	77.31			
	2/13/2019		0.01	20.71	80.29			
03439-RW05	5/14/2013	94.97	1.39	NA	NA	30.00	10.0 - 30.0	84.97 - 64.97
	10/2/2017*		0.38	24.43	70.54			
	2/13/2019*		0.20	22.03	72.94			
03439-RW06	5/14/2013	88.05	3.24	NA	NA	26.50	6.5 - 26.5	81.55 - 61.55
	10/2/2017*		3.74	19.47	68.58			
	2/13/2019*		1.09	16.57	71.48			
03439-RW07	5/14/2013	88.06	4.99	NA	NA	30.00	10.0 - 30.0	78.06 - 58.06
	10/2/2017*		0.83	20.67	67.39			
	2/13/2019*		1.30	18.76	69.30			
03439-RW08	5/14/2013	87.06	---	18.42	68.64	28.50	8.2 - 28.2	78.86 - 58.86
	10/2/2017		---	19.61	67.45			
	2/13/2019		---	18.56	68.50			
03439-RW09	5/14/2013	86.18	0.60	NA	NA	30.00	10.0 - 30.0	76.18 - 56.18
	10/2/2017*		0.04	21.39	64.79			
	2/13/2019		---	19.60	66.58			
03439-RW10	5/14/2013	84.49	---	19.93	64.56	30.00	10.0 - 30.0	74.49 - 54.49
	10/2/2017		---	21.03	63.46			
	2/13/2019		---	18.35	66.14			
03439-RW11	5/14/2013	81.06	---	15.48	65.58	27.00	6.7 - 26.7	74.36 - 54.36
	10/2/2017*		0.04	17.21	63.85			
	2/13/2019		---	14.76	66.30			
03439-RW12	5/14/2013	82.22	---	18.43	63.79	30.00	10.0 - 30.0	72.22 - 52.22
	10/2/2017		---	19.49	62.73			
	2/13/2019		---	17.20	65.02			

TABLE 1

MONITORING WELL AND GROUNDWATER ELEVATION DATA

Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J18-10768-05

Well ID	Date	Top of Casing Elevation	Free-Product Thickness	Groundwater Depth (btoc)	Groundwater Elevation	Well Depth	Screen Depth	Screen Elevation
03439-RW13	5/14/2013	80.72	---	17.41	63.31	29.00	9.0 - 29.0	71.72 - 51.72
	10/2/2017		---	18.28	62.44			
	2/13/2019		---	16.02	64.70			
03439-RW14	10/2/2017*	98.66	0.42	25.13	73.53	30.00	10.0 - 30.0	88.66 - 68.66
	2/13/2019*		2.36	22.44	76.22			
03439-RW15	10/2/2017*	95.62	1.09	23.79	71.83	30.00	10.0 - 30.0	85.62 - 65.62
	2/13/2019*		0.09	21.15	74.47			
03439-RW16	10/2/2017*	92.26	1.11	22.26	70.00	30.00	10.0 - 30.0	82.26 - 62.26
	2/13/2019		---	19.65	72.61			
03439-RW17	10/2/2017	88.47	Not Located			30.00	10.0 - 30.0	78.47 - 58.47
	2/13/2019		---	16.09	72.38			

NOTES:

Monitoring well construction and groundwater elevation data were obtained from historical reports obtained from an SCDHEC FOI search. BLE is not responsible for the accuracy of this data. Measurements are in feet; elevations are relative to an arbitrary site datum.

btoc = below top of casing

NA = Not Available / Unknown

* - Groundwater elevation corrected for the presence of free-product using the specific gravity of 0.70 g/ml

TABLE 2A

Historical Laboratory Analytical Results
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J18-10768-05

Well	Date Sampled	Free-Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL			5	1,000	700	10,000	40	25	0.05	5
03439-MW01	5/7/2002	0.04	226,000	301,000	280,000	278,000	5,110,000	2,000	NA	NA
	7/1/2003	0.24	10,000	34,000	4,400	23,000	34,000	1,200	NA	NA
	7/30/2003	0.08	7,600	28,000	6,300	32,000	25,000	2,500	NA	NA
	12/18/2003	---	2,200	6,200	910	5,800	16,000	2,500	NA	NA
	3/31/2004	---	3,400	9,300	1,100	6,200	20,000	1,200	NA	NA
	2/14/2008	0.03	Not Sampled Due to the Presence of Free Product							
	4/27/2010	0.55	Not Sampled Due to the Presence of Free Product							
	12/13/2010	---	4,530	8,750	1,150	6,430	30,400	529	NT	<250
	5/14/2013	0.05	Not Sampled Due to the Presence of Free Product							
	10/2/2017	---	9,020	25,600	2,030	11,200	60,700	382 J	<0.020	<120
2/13/2019	0.02	Not Sampled Due to the Presence of Free Product								
03439-MW02	5/7/2002	---	13.0	8.0	1.0	5.0	5.0	5.0	NA	NA
	7/1/2003	---	4.7	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	5.8	5.0	1.0	5.0	1.0	5.0	NA	NA
	12/18/2003	---	2.2	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	2.6	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	---	4	<1	<1	1	<1	<2	NT	NT
	4/27/2010	---	4	<5	<5	3	<5	<5	<0.02	<5
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NT	<5
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	10/2/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.019	<0.24
2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40	
03439-MW03	5/7/2002	---	1.0	1.0	1.0	1.0	5.0	5.0	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	---	<1	<1	<1	1	<1	<2	NT	NT
	4/27/2010	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NT	<5
	5/14/2013	NA	Not Located							
	10/2/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.019	<0.24
2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
03439-MW04	5/7/2002	---	1,500	5,320	620	3,360	810	500	NA	NA
	7/1/2003	---	4,800	14,000	2,300	12,000	2,600	500	NA	NA
	7/30/2003	---	4,000	14,000	2,700	13,000	2,100	500	NA	NA
	12/18/2003	---	1,100	2,400	230	1,900	1,200	250	NA	NA
	3/31/2004	---	1	5	1	3	1.0	5	NA	NA
	2/14/2008	---	<1	<1	<1	<3	1	<2	NA	NA
	4/27/2010	---	532	906	179	895	381	31	<0.02	<5
	12/13/2010	---	520	224	55	482	763	18	NA	<25
	5/14/2013	---	140	480	250	1,000	31	39	<0.02	NA
	10/3/2017	---	63.5	177	260	1,420	6.2	73.0	<0.019	<0.96
2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40	
03439-MW05	5/7/2002	---	1.0	1.0	1.0	1.0	5.0	5.0	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	4.2	17.0	3.6	18	2.2	5.0	NA	NA
	12/18/2003	---	2.3	5.0	1.0	3.2	1.3	5.0	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA
	4/27/2010	NA	Not Located							
	12/13/2010	NA	Not Located							
	5/14/2013	NA	Not Located							
	10/2/2017	NA	Not Located							
2/13/2019	NA	Not Located								
03439-MW06	5/7/2002	---	1,780	4,950	490	2,880	6,350	500	NA	NA
	7/1/2003	---	2,200	6,600	820	4,400	12,000	2,500	NA	NA
	7/30/2003	---	4,200	13,000	1,600	8,900	21,000	400	NA	NA
	12/18/2003	---	5,100	14,000	1,700	11,000	19,000	2,500	NA	NA
	3/31/2004	---	280	840	100	2,200	900	250	NA	NA
	2/14/2008	---	162	750	26	575	11	12	NA	NA
	4/27/2010	---	5,570	19,900	2,260	12,300	35,300	463	<0.02	<5
	12/13/2010	---	1,300	6,340	360	7,910	2,500	<250	NT	<250
	5/14/2013	---	7,500	27,000	1,900	13,000	22,000	380	<0.02	210
	10/2/2017	NA	Not Located							
2/13/2019	0.01	Not Sampled Due to the Presence of Free Product								

TABLE 2A

Historical Laboratory Analytical Results
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J18-10768-05

Well	Date Sampled	Free-Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL			5	1,000	700	10,000	40	25	0.05	5
03439-MW07	5/7/2002	---	34	20	1.0	8.0	7	5.0	NA	NA
	7/1/2003	---	37	36	1.7	20	9	5.0	NA	NA
	7/30/2003	---	18	18	1.0	9.7	1	5.0	NA	NA
	12/18/2003	---	41	20	1.0	3.0	1	5.0	NA	NA
	3/31/2004	---	30	34	1.0	16	1	5.0	NA	NA
	2/14/2008	---	59	60	3	41	2	<2	NA	NA
	4/27/2010	NA	Not Accessible							
	12/13/2010	NA	Not Located							
	5/14/2013	NA	Not Located							
10/2/2017	NA	Not Located								
2/13/2019	NA	Not Accessible								
03439-MW08	5/7/2002	0.06	226,000	301,000	280,000	278,000	5,100,000	2,000	NA	NA
	7/1/2003	0.60	12,000	51,000	7,800	40,000	11,000	2,500	NA	NA
	7/30/2003	0.20	12,000	40,000	3,600	18,000	15,000	660	NA	NA
	12/18/2003	---	10,000	27,000	3,300	18,000	14,000	2,500	NA	NA
	3/31/2004	0.10	Not Sampled Due to the Presence of Free Product							
	2/14/2008	1.93	Not Sampled Due to the Presence of Free Product							
	4/27/2010	0.45	Not Sampled Due to the Presence of Free Product							
	12/13/2010	1.00	Not Sampled Due to the Presence of Free Product							
	5/14/2013	0.27	Not Sampled Due to the Presence of Free Product							
	10/2/2017	---	2,370	14,600	2,090	11,200	386	386	<0.019	<24.0
2/13/2019	---	2,000	12,000	2,100	13,000	490	410	<0.019	<20	
03439--MW08 DUP	2/13/2019	---	2,100	16,000	2,200	13,000	500	430	<0.020	<20
03439-MW09	5/7/2002	---	NA	NA	NA	NA	86.0	9	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5	NA	NA
	7/30/2003	---	NA	NA	NA	NA	540.0	6.5	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	91.0	ND	NA	NA
	3/31/2004	---	1.0	5.0	2.0	8.8	1.0	ND	NA	NA
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA
	4/27/2010	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NT	<5
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	10/3/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.019	<0.24
2/14/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
03439-MW10	5/7/2002	---	115	185	68.0	328	86	9.0	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	170	420	43.0	240	540	6.5	NA	NA
	12/18/2003	---	89	280	74.0	480	91	25	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	---	401	129	167	721	296	46	NA	NA
	4/27/2010	---	<5	<5	<5	<10	4	<5	<0.02	<5
	12/13/2010	---	50	8	5	52	23	<5	NA	<5
	5/14/2013	---	6	<5	<5	<10	<5	<5	<0.02	<5
	10/2/2017	NA	Not Located							
2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40
03439-MW11	5/7/2002	---	1.0	1.0	1.0	1.0	5.0	5.0	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	---	<1	2	1	7	2	1	NA	NA
	4/27/2010	---	<5	3	<5	4	<5	<5	<0.02	<5
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	10/3/2017	---	<0.25	0.73 J	1.1	7.0	<0.21	1.3	<0.019	<0.24
2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
03439-MW12	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	5,500	17,000	2,600	13,000	7,100	570	NA	NA
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA
	4/27/2010	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	10/3/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.019	<0.24
2/14/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	

TABLE 2A

Historical Laboratory Analytical Results
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J18-10768-05

Well	Date Sampled	Free-Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL			5	1,000	700	10,000	40	25	0.05	5
03439-MW13	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	1	5	1	3	1	5	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	1	5	1	3	1	5	NA	NA
	3/31/2004	---	1	5	1	3	1	5	NA	NA
	2/14/2008	NA	Not Located							
	4/27/2010	---	<5	<5	<5	<10	<5	<5	0.05	<5
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	10/2/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.020	<0.24
2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40	
03439-MW14	5/7/2002	---	3,780	13,800	27,000	14,700	7,010	500	NA	NA
	7/1/2003	---	3,500	10,000	1,900	10,000	5,300	500	NA	NA
	7/30/2003	---	3,100	9,700	1,800	9,300	4,300	500	NA	NA
	12/18/2003	---	3,300	11,000	2,000	11,000	4,100	500	NA	NA
	3/31/2004	---	1	5	1	3	2.0	5	NA	NA
	2/14/2008	---	3,640	14,500	2,700	14,300	5,500	439	NA	NA
	4/27/2010	---	1,770	6,420	1,560	8,850	2,020	432	<0.02	<5
	12/13/2010	---	1,410	4,840	1,490	8,450	1,500	359	NA	<250
	5/14/2013	---	1,100	4,700	1,200	7,100	830	350	<0.02	<250
	10/3/2017	---	371	706	551	3,220	88.1	179	<0.020	<2.4
2/14/2019	---	220	530	480	2,700	60	140	<0.020	<4.0	
03439-MW15	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	1	5	1	3	1	5	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	1	5	1	3	1	5	NA	NA
	3/31/2004	---	1	5	1	3	1	5	NA	NA
	2/14/2008	NA	Not Sampled							
	4/27/2010	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	12/13/2010	NA	Not Located							
	5/14/2013	NA	Not Located							
	10/2/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.020	<0.24
2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
03439-DMW01	5/7/2002	---	215	430	50	50	1,780	250	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	1.0	5.0	1.0	3.0	4.2	5.0	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	3.9	5.0	NA	NA
	2/14/2008	---	<1	<1	<1	<3	12	<2	NA	NA
	4/27/2010	---	<5	3	<5	5	<5	4	<0.02	<5
	12/13/2010	---	3	4	<5	3	104	<5	NA	<5
	5/14/2013	---	<5	<5	<5	<10	<1	<5	<0.02	<5
	10/3/2017	---	<0.25	<0.26	<0.30	<1.0	0.29 J	<0.24	<0.019	<0.24
2/14/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40	
03439-DMW02	5/7/2002	---	1.0	1.0	1.0	1.0	5.0	5.0	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	6.4	5.0	NA	NA
	7/30/2003	---	1.0	8.4	6.8	30	1.0	6.7	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA
	4/27/2010	---	<5	<5	<5	3	<5	<5	<0.02	<5
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	10/3/2017	---	<0.25	6.9	7.6	53.4	<0.21	3.0	<0.020	<0.24
2/14/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
03439-DMW04	5/7/2002	---	1.0	1.0	1.0	1.0	5.0	5.0	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA
	4/27/2010	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	10/3/2017	---	<0.25	0.90 J	<0.30	<1.0	0.28 J	0.85 J	<0.011	<0.24
2/14/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40	

TABLE 2A

Historical Laboratory Analytical Results
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J18-10768-05

Well	Date Sampled	Free-Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL			5	1,000	700	10,000	40	25	0.05	5
03439-RW01	12/13/2010	---	3,550	13,500	1,190	6,220	24,500	874	NA	<125
	5/14/2013	0.04	Not Sampled Due to the Presence of Free Product							
	10/3/2017	---	5,340	31,400	3,430	21,700	7,920	700	<0.019	<60.0
	10/3/2017	---	2,440	9,230	1,060	6,200	10,200	274	<0.019	<24.0
	2/13/2019	---	3,800	24,000	2,800	21,000	3,800	710 J	<0.020	<80
03439-RW02	12/13/2010	0.02	Not Sampled Due to the Presence of Free Product							
	5/14/2013	0.30	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.61	Not Sampled Due to the Presence of Free Product							
	2/13/2019	0.03	Not Sampled Due to the Presence of Free Product							
03439-RW03	12/13/2010	---	4,860	20,800	3,240	17,500	10,200	1,290	NA	<250
	5/14/2013	---	4,900	17,000	1,400	8,200	7,400	280	<0.02	<500
	10/2/2017	NA	Well Dry at Time of Sampling Event							
	2/13/2019	---	55	180	11	380	120	25	<0.020	1.3 J
03439-RW04	12/13/2010	---	2,390	6,720	467	4,020	7,780	169	NA	<5
	5/14/2013	---	4,000	13,000	990	5,900	22,000	<1,000	<0.02	97
	10/3/2017	---	391	1,370	273	2,060	20.6	261	<0.020	<2.4
	2/13/2019	0.01	Not Sampled Due to the Presence of Free Product							
03439-RW05	5/14/2013	1.39	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.38	Not Sampled Due to the Presence of Free Product							
	2/13/2019	0.20	Not Sampled Due to the Presence of Free Product							
03439-RW06	5/14/2013	3.24	Not Sampled Due to the Presence of Free Product							
	10/2/2017	3.74	Not Sampled Due to the Presence of Free Product							
	2/13/2019	1.09	Not Sampled Due to the Presence of Free Product							
03439-RW07	5/14/2013	4.99	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.83	Not Sampled Due to the Presence of Free Product							
	2/13/2019	1.30	Not Sampled Due to the Presence of Free Product							
03439-RW08	5/14/2013	---	8,400	33,000	3,000	16,000	6,100	<2,500	0.06	<2,500
	10/3/2017	---	2,900	14,100	2,030	10,300	472	467	<0.019	<24.0
	2/13/2019	---	2,900	19,000	2,500	13,000	570 J	360 J	0.038	<80
03439-RW09	5/14/2013	0.60	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.04	Not Sampled Due to the Presence of Free Product							
	2/13/2019	---	4.4 J	58	45	290	2.0 J	12	<0.020	<0.40
03439-RW10	5/14/2013	---	6,300	31,000	3,500	19,000	4,300	<2,500	<0.02	<2,500
	10/3/2017	---	2,650	10,900	2,150	11,200	480	401	<0.020	<24.0
	2/13/2019	---	3.6 J	2.5 J	<0.40	0.68 J	11	<0.40	<0.020	<0.40
03439-RW10 DUP	2/13/2019	---	3.6 J	2.6 J	<0.40	1.1 J	11	<0.40	<0.020	<0.40
03439-RW11	5/14/2013	---	6,400	29,000	3,000	17,000	3,700	<2,500	<0.02	<2,500
	10/2/2017	0.04	Not Sampled Due to the Presence of Free Product							
	2/13/2019	---	2,700	17,000	2,600	16,000	860	590	0.023	<40
03439-RW12	5/14/2013	---	6,800	26,000	3,200	17,000	6,100	570	<0.02	<1,000
	10/3/2017	---	818	5,810	1,960	10,800	118	447	<0.020	<12.0
	2/13/2019	---	110	420	95	640	46	21 J	<0.020	<2.0
03439-RW13	5/14/2013	---	2,800	5,100	990	5,300	4,100	230	<0.02	<250
	10/3/2017	---	52.6	355	230	1,480	5.1 J	128	<0.020	<2.4
	2/13/2019	---	0.63 J	<0.40	<0.40	0.81 J	11.0	<0.40	<0.020	<0.40
03439-RW14	10/2/2017	0.42	Not Sampled Due to the Presence of Free Product							
	2/13/2019	2.36	Not Sampled Due to the Presence of Free Product							
03439-RW15	10/2/2017	1.09	Not Sampled Due to the Presence of Free Product							
	2/13/2019	0.09	Not Sampled Due to the Presence of Free Product							
03439-RW16	10/2/2017	1.11	Not Sampled Due to the Presence of Free Product							
	2/13/2019	---	310 J	32,000	4,000	22,000	<80	620 J	<0.020	<80
03439-RW17	10/2/2017	NA	Not Located / Not Accessible / Under Fallen Tree							
	2/13/2019	---	<0.40	5.0	14	92	<0.40	7.4	<0.020	<0.40
03439-CK01	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	2.6	5	1.0	4.8	4.5	5.0	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	11	18	4.1	20	9.0	5.0	NA	NA
	3/31/2004	---	16	30	6.1	32	22	5.0	NA	NA
	2/14/2008	---	9	17	5	24	12	1	NA	NA
	4/27/2010	---	3	6	2	8	5	<5	<0.02	<5
	12/13/2010	---	4	6	2	9	5	<5	NA	<5
	5/14/2013	---	<5	9	2	13	5	<5	<0.02	<5
	10/2/2017	---	4.7	6.8	3.7	18.8	5.8	0.83 J	<0.019	<0.24
2/13/2019	---	0.98 J	2.1 J	1.2 J	6.0	1.1 J	<0.40	<0.020	<0.40	

TABLE 2A

Historical Laboratory Analytical Results
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J18-10768-05

Well	Date Sampled	Free-Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL			5	1,000	700	10,000	40	25	0.05	5
03439-CK02	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	NA	Not Sampled							
	4/27/2010	---	13	36	6	32	17	<5	<0.02	<5
	12/13/2010	---	16	36	7	34	23	7	NA	<5
	5/14/2013	---	24	75	15	89	21	3	<0.02	<5
	10/2/2017	---	17.1	39.6	14.4	75.8	14.4	3.4	<0.019	<0.24
2/13/2019	---	4.4 J	16	5.6	30	3.0 J	1.3 J	<0.020	<0.40	
03439-CK03	2/14/2008	---	21	54	10	62	<40	4	NA	NA
	4/27/2010	---	13	38	7	37	19	<5	<0.02	<5
	12/13/2010	---	18	39	8	42	28	4	NA	<5
	5/14/2013	---	12	36	7	40	12	<5	<0.02	<5
	10/2/2017	---	13.0	27.5	10.4	58.2	13.0	2.9	<0.019	<0.24
	2/13/2019	---	4.1 J	15	5.5	29	2.7 J	1.2 J	<0.020	<0.40
03439-CK04	2/13/2019	---	<0.40	0.52 J	<0.40	1.8 J	<0.40	<0.40	<0.020	<0.40
03439-WW01	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	5.0	5.0	NA	NA
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA
	4/27/2010	NA	Not Sampled							
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5
	5/14/2013	---	<1	<1	<1	<1	<1	<1	<0.02	<1
	10/2/2017	---	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.019	<0.25
2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0038	<0.40	
03439-WW01 DUP	2/13/2019	NA	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039	<0.40
Field Blank 01	2/13/2019	NA	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40
Field Blank 02	2/14/2019	NA	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40
WSW Field Blank	2/13/2019	NA	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039	<0.40
Trip Blank	2/13/2019	NA	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	NT	<0.40
WSW Trip Blank	2/13/2019	NA	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	NT	<0.40

Notes:

µg/L = micrograms/liter = approximate Parts Per Billion (ppb)

Historical analytical results obtained from historical reports obtained from SCDHEC FOI search. BLE is not responsible for the accuracy of this data.

Bold values indicate detections

Shaded cells indicate concentrations above RBSLs

RBSL = Risk Based Screening Level

NA = Not Available / Unknown

ND = Not Detected at the Method Detection Limit

NS = Not Sampled

NT = Not Tested

MTBE = Methyl tertiary butyl ether

EDB = 1,2-Dibromoethane

1,2-DCA = 1,2-Dichloroethane

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J18-10768-05

Well	Date Sampled	Free Product Thickness	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-Tert-Butyl Ether (ETBE) (µg/L)	Ethyl-Tert-Butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL			128	240	NE	1,400	150	10,000	47	NE
03439-MW01	5/7/2002	0.04	Not Sampled Due to the Presence of Free Product							
	7/1/2003	0.24	Not Sampled Due to the Presence of Free Product							
	7/30/2003	0.08	Not Sampled Due to the Presence of Free Product							
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NT
	2/14/2008	0.03	Not Sampled Due to the Presence of Free Product							
	4/27/2010	0.55	Not Sampled Due to the Presence of Free Product							
	12/13/2010	---	735	3,430	NA	1,600	449	NA	NA	NA
	5/14/2013	0.05	Not Sampled Due to the Presence of Free Product							
10/2/2017	---	1,760 J	<25,000	<945	20,000 J	1,130	<65,500	<35.0	<25,000	
2/13/2019	0.02	Not Sampled Due to the Presence of Free Product								
03439-MW02	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA
10/2/2017	---	<0.10	<50.0	<1.9	<3.6	0.13 J	<131	<0.070	<50.0	
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
03439-MW03	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA
10/2/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0	
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
03439-MW04	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	14	355	NA	<100	22	NA	NA	NA
	12/13/2010	---	<50	342	NA	<500	25	NA	NA	NA
	5/14/2013	---	<50	<500	NA	<500	<50	NA	NA	NA
10/3/2017	---	<0.40	<200	<7.6	<14.5	0.74 J	<524	<0.28	<200	
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
03439-MW05	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	NA	Not Located							
	12/13/2010	NA	Not Located							
	5/14/2013	NA	Not Located							
10/2/2017	NA	Not Located								
2/13/2019	NA	Not Located								
03439-MW06	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	914	3,110	NA	<100	536	NA	NA	NA
	12/13/2010	---	<500	<5,000	NA	<5,000	<250	NA	NA	NA
	5/14/2013	---	910	2,300	NA	<20,000	470	NA	NA	NA
10/2/2017	NA	Not Located								
2/13/2019	0.01	Not Sampled Due to the Presence of Free Product								

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J18-10768-05

Well	Date Sampled	Free Product Thickness	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Butyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Dilsopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-Tert-Butyl Ether (ETBE) (µg/L)	Ethyl-Tert-Butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL			128	240	NE	1,400	150	10,000	47	NE
03439-MW07	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	NA	Not Accessible							
	12/13/2010	NA	Not Located							
	5/14/2013	NA	Not Located							
	10/2/2017	NA	Not Located							
2/13/2019	NA	Not Accessible								
03439-MW08	5/7/2002	0.06	Not Sampled Due to the Presence of Free Product							
	7/1/2003	0.60	Not Sampled Due to the Presence of Free Product							
	7/30/2003	0.20	Not Sampled Due to the Presence of Free Product							
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	0.10	Not Sampled Due to the Presence of Free Product							
	2/14/2008	1.93	Not Sampled Due to the Presence of Free Product							
	4/27/2010	0.45	Not Sampled Due to the Presence of Free Product							
	12/13/2010	1.00	Not Sampled Due to the Presence of Free Product							
	5/14/2013	0.27	Not Sampled Due to the Presence of Free Product							
	10/3/2017	---	<10.0	<5,000	<189	<362	60.4 J	<13,100	<7.0	<5,000
2/13/2019	---	92 J	830 J	<100	<400	51 J	<2,600	<20	<400	
03439-MW08 DUP	2/13/2019	---	81 J	940 J	<100	<400	55 J	<2,600	<20	<400
03439-MW09	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA
	10/3/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0
2/14/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
03439-MW10	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA
	10/2/2017	NA	Not Located							
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
03439-MW11	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA
	10/3/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
03439-MW12	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA
	10/3/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	NT
2/14/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J18-10768-05

Well	Date Sampled	Free Product Thickness	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Dilsopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-Tert-Butyl Ether (ETBE) (µg/L)	Ethyl-Tert-Butyl Alcohol (ETBA) (µg/L)	
SC DHEC RBSL			128	240	NE	1,400	150	10,000	47	NE	
03439-MW13	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA	
	10/2/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	NT	
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0		
03439-MW14	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	134	717	NA	<100	96	NA	NA	NA	
	12/13/2010	---	<500	<5,000	NA	<5,000	<250	NA	NA	NA	
	5/14/2013	---	55	420	NA	<5,000	35	NA	NA	NA	
	10/3/2017	---	<1.0	<500	<18.9	<36.2	9.8 J	<1,310	<0.70	<500	
2/14/2019	---	10 J	100 J	<20	<80	6.5 J	<520	<4.0	<80		
03439-MW15	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	NA	Not Sampled								
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	NA	Not Located								
	5/14/2013	NA	Not Located								
	10/2/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0	
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0		
03439-DMW01	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA	
	10/3/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0	
2/14/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0		
03439-DMW02	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA	
	10/3/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0	
2/14/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0		
03439-DMW04	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA	
	10/3/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0	
2/14/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0		

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J18-10768-05

Well	Date Sampled	Free Product Thickness	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Dilsopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-Tert-Butyl Ether (ETBE) (µg/L)	Ethyl-Tert-Butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL			128	240	NE	1,400	150	10,000	47	NE
03439-RW01	12/13/2010	---	586	3,850	NA	5,200	373	NA	NA	NA
	5/14/2013	0.04	Not Sampled Due to the Presence of Free Product							
	10/3/2017	---	551 J	<12,500	<472	<905	327	<32,800	<17.5	<12,500
	2/13/2019	---	470 J	<1,600	<400	<1,600	190 J	<10,000	<80	<1,600
03439-RW02	12/13/2010	0.02	Not Sampled Due to the Presence of Free Product							
	5/14/2013	0.30	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.61	Not Sampled Due to the Presence of Free Product							
	2/13/2019	0.03	Not Sampled Due to the Presence of Free Product							
03439-RW03	12/13/2010	---	454	<5,000	NA	<5,000	284	NA	NA	NA
	5/14/2013	---	420	870	NA	<10,000	260	NA	NA	NA
	10/2/2017	NA	Well Dry at Time of Sampling Event							
	2/13/2019	---	12.0	31.0	<2.0	22.0	6.4	<52	<0.40	<8.0
03439-RW04	12/13/2010	---	259	581	NA	764	203	NA	NA	NA
	5/14/2013	---	650	1,700	NA	1,400	370	NA	NA	NA
	10/3/2017	---	<1.0	<500	<18.9	<36.2	3.9 J	<1,310	<0.70	<500
	2/13/2019	0.01	Not Sampled Due to the Presence of Free Product							
03439-RW05	5/14/2013	1.39	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.38	Not Sampled Due to the Presence of Free Product							
	2/13/2019	0.20	Not Sampled Due to the Presence of Free Product							
03439-RW06	5/14/2013	3.24	Not Sampled Due to the Presence of Free Product							
	10/2/2017	3.74	Not Sampled Due to the Presence of Free Product							
	2/13/2019	1.09	Not Sampled Due to the Presence of Free Product							
03439-RW07	5/14/2013	4.99	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.83	Not Sampled Due to the Presence of Free Product							
	2/13/2019	1.30	Not Sampled Due to the Presence of Free Product							
03439-RW08	5/14/2013	---	430	<50,000	NA	<50,000	250	NA	NA	NA
	10/3/2017	---	<0.20	<6.7	<1.0	<6.7	<0.40	<33	<0.20	<5,000
	2/13/2019	---	<84	<1,600	<400	<1,600	<80	<10,000	<80	<1,600
03439-RW09	5/14/2013	0.60	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.04	Not Sampled Due to the Presence of Free Product							
	2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0
03439-RW10	5/14/2013	---	300	<50,000	NA	<50,000	210	NA	NA	NA
	10/3/2017	---	<10.0	<5,000	<189	<362	58.1 J	<13,100	<7.0	<5,000
	2/13/2019	---	1.2 J	13 J	<2.0	<8.0	0.97 J	<52	<0.40	<8.0
03439-RW10 DUP	2/13/2019	---	1.2 J	13 J	<2.0	<8.0	0.92 J	<52	<0.40	<8.0
03439-RW11	5/14/2013	---	350	<50,000	NA	<50,000	<5,000	NA	NA	NA
	10/2/2017	0.04	Not Sampled Due to the Presence of Free Product							
	2/13/2019	---	130 J	900 J	<200	<800	75 J	<5,200	<40	<800
03439-RW12	5/14/2013	---	390	<20,000	NA	<20,000	240	NA	NA	NA
	10/3/2017	---	<5.0	<2,500	<94.5	<181	17.3 J	<6,550	<3.5	<2,500
	2/13/2019	---	6.1 J	62 J	<10	<40	4.9 J	<260	<2.0	<40
03439-RW13	5/14/2013	---	230	<5,000	NA	<5,000	140	NA	NA	NA
	10/3/2017	---	<1.0	<500	<18.9	<36.2	<1.2	<1,310	<0.70	<500
	2/13/2019	---	0.97 J	8.1 J	<2.0	<8.0	1.1 J	<52	<0.40	<8.0
03439-RW14	10/2/2017	0.42	Not Sampled Due to the Presence of Free Product							
	2/13/2019	2.36	Not Sampled Due to the Presence of Free Product							
03439-RW15	10/2/2017	1.09	Not Sampled Due to the Presence of Free Product							
	2/13/2019	0.09	Not Sampled Due to the Presence of Free Product							
03439-RW16	10/2/2017	1.11	Not Sampled Due to the Presence of Free Product							
	2/13/2019	---	<84	<1,600	<400	<1,600	<80	<10,000	<80	<1,600
03439-RW17	10/2/2017	NA	Not Located / Not Accessible / Under Fallen Tree							
	2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0
03439-CK01	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA
	10/2/2017	---	<0.10	<50.0	<1.9	<3.6	0.23 J	<131	<0.070	<50.0
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	

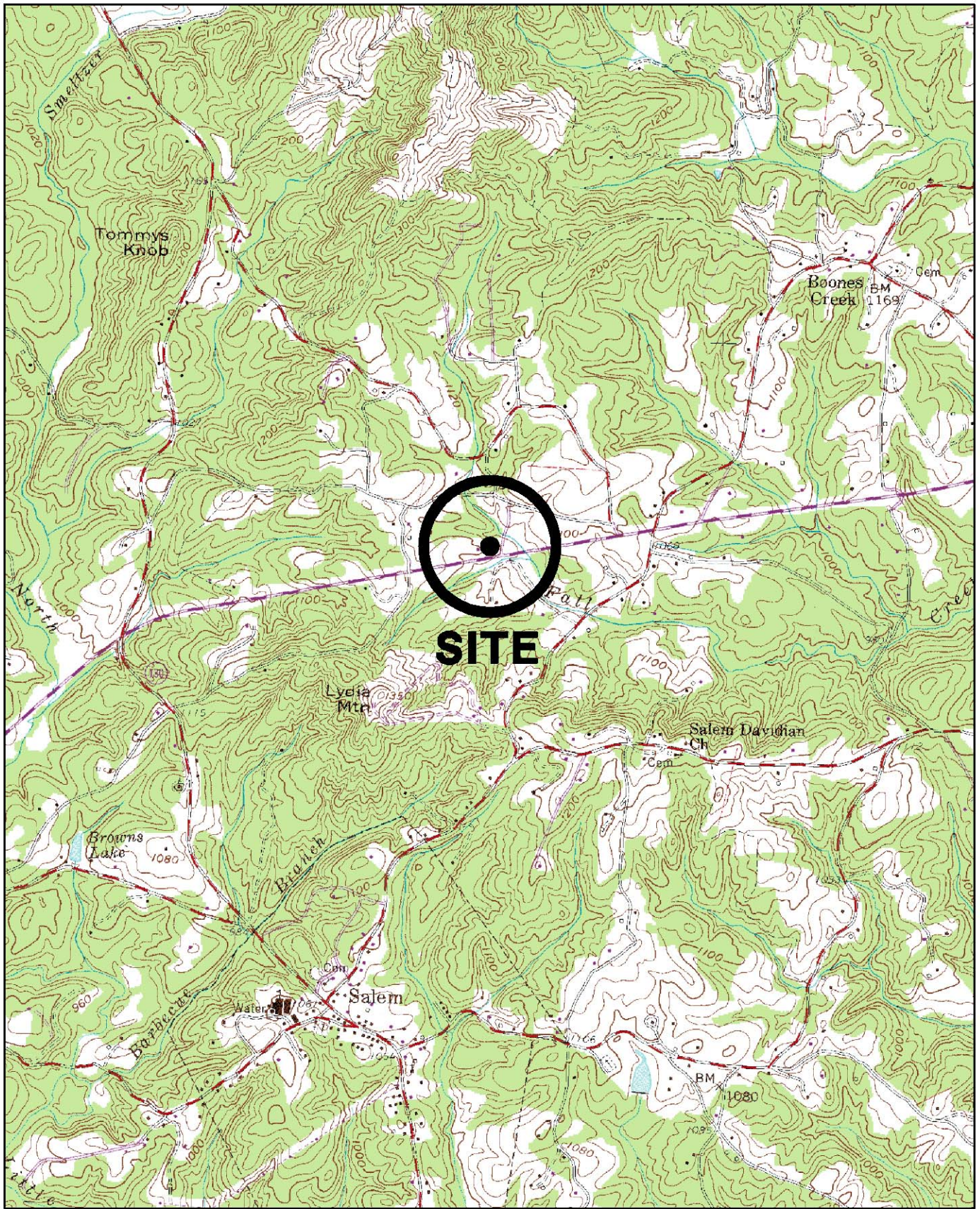
TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J18-10768-05

Well	Date Sampled	Free Product Thickness	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-Tert-Butyl Ether (ETBE) (µg/L)	Ethyl-Tert-Butyl Alcohol (ETBA) (µg/L)	
SC DHEC RBSL			128	240	NE	1,400	150	10,000	47	NE	
03439-CK02	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	5/14/2013	---	<1	8	NA	<100	<10	NA	NA	NA	
	10/2/2017	---	1.1 J	<50.0	<1.9	<3.6	0.79 J	<131	<0.070	<50.0	
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0		
03439-CK03	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	5/14/2013	---	<1	<100	NA	<100	<1	NA	NA	NA	
	10/2/2017	---	<0.10	<50.0	<1.9	<3.6	0.72 J	<131	<0.070	<50.0	
	2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
03439-CK04	2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
03439-WW01	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	NA	Not Sampled								
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	5/14/2013	---	<10	<100	NA	<100	<10	NA	NA	NA	
	10/2/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0	
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0		
03439-WW01 Dup	2/13/2019	NA	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
Field Blank 01	2/13/2019	NA	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
Field Blank 02	2/14/2019	NA	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
WSW Field Blank	2/13/2019	NA	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
Trip Blank	2/13/2019	NA	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
WSW Trip Blank	2/13/2019	NA	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	

Notes:
 µg/L = micrograms/liter = approximate Parts Per Billion (ppb)
 Historical analytical results obtained from historical reports obtained from SCDHEC FOI search. BLE is not responsible for the accuracy of this data.
Bold values indicate detections
 Shaded cells indicate concentrations above RBSLs
 RBSL = Risk Based Screening Level
 NA = Not Available / Unknown
 ND = Not Detected
 NE = RBSL has not been established
 NS = Not Sampled

FIGURES



REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES,
SALEM, S.C. QUADRANGLE, PHOTOREVISED 1980.

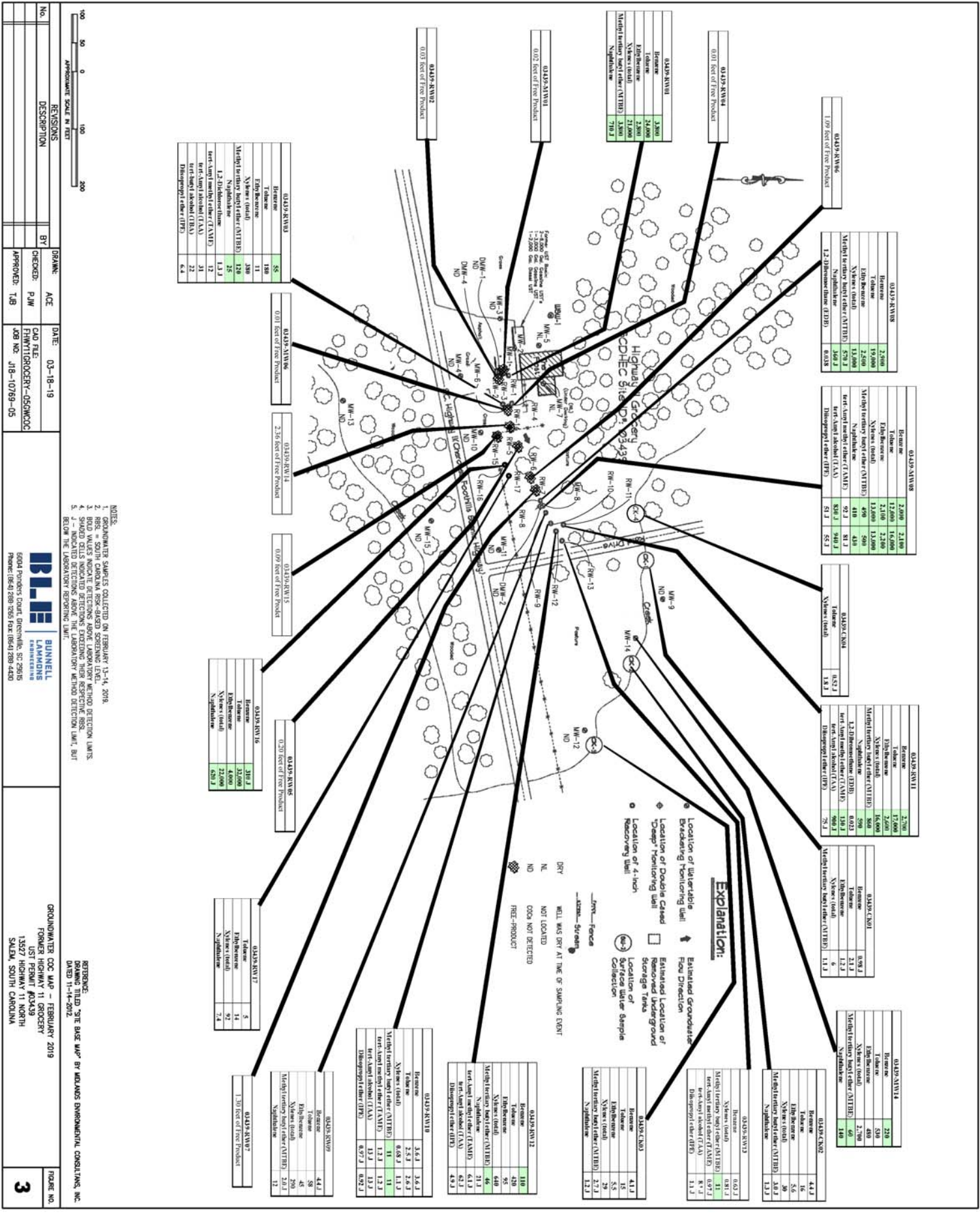
DRAWN: ACE	DATE: 10-17-18
CHECKED: TJB	CAD: FHWHY11GROCERY-05SLM
APPROVED:	JOB NO: J18-10769-05

BLE | **BUNNELL LAMMONS ENGINEERING**
 5004 Ponders Court, Greenville, SC 29615
 Phone: (854) 288-1255 Fax: (864) 288-4430

SITE LOCATION MAP
 FORMER HIGHWAY 11 GROCERY
 UST PERMIT #03439
 13527 HIGHWAY 11 NORTH
 SALEM, SOUTH CAROLINA

FIGURE

1



Well ID	Depth	Screen	Flow Direction	Remarks
0439-RW1	1.00 feet of Free Product	1.00	SE	0.01
0439-RW2	1.00 feet of Free Product	1.00	SE	0.01
0439-RW3	1.00 feet of Free Product	1.00	SE	0.01
0439-RW4	1.00 feet of Free Product	1.00	SE	0.01
0439-RW5	1.00 feet of Free Product	1.00	SE	0.01
0439-RW6	1.00 feet of Free Product	1.00	SE	0.01
0439-RW7	1.00 feet of Free Product	1.00	SE	0.01
0439-RW8	1.00 feet of Free Product	1.00	SE	0.01
0439-RW9	1.00 feet of Free Product	1.00	SE	0.01
0439-RW10	1.00 feet of Free Product	1.00	SE	0.01
0439-RW11	1.00 feet of Free Product	1.00	SE	0.01
0439-RW12	1.00 feet of Free Product	1.00	SE	0.01
0439-RW13	1.00 feet of Free Product	1.00	SE	0.01
0439-RW14	1.00 feet of Free Product	1.00	SE	0.01
0439-RW15	1.00 feet of Free Product	1.00	SE	0.01
0439-RW16	1.00 feet of Free Product	1.00	SE	0.01
0439-RW17	1.00 feet of Free Product	1.00	SE	0.01

REV	DESCRIPTION	BY	DATE
001	ISSUED FOR PERMIT	ACE	03-18-19
002	REVISED PER COMMENTS	PJM	03-18-19
003	REVISED PER COMMENTS	PJM	03-18-19
004	REVISED PER COMMENTS	PJM	03-18-19
005	REVISED PER COMMENTS	PJM	03-18-19

BLINELL
 BUNNELL
 LAMOND
 CONSULTANTS
 5004 PONDERS COURT, DREHMEIN, SC 29515
 PHONE: (803) 289-7800 FAX: (803) 289-4400

GROUNDWATER COC MAP - FEBRUARY 2019
 FORNER FURNACE OIL COCKERY
 13507 HIGHWAY 11 NORTH
 SALEM, SOUTH CAROLINA

NOTES:
 1. MONITORING SQUARES COLLECTED ON FEBRUARY 13-14, 2019.
 2. RSL = SOUTH CAROLINA RISK-BASED SCREENING LEVEL.
 3. BOLD VALUES INDICATE DETECTIONS ABOVE LABORATORY METHOD DETECTION LIMITS.
 4. SPREAD SHEETS INDICATE DETECTIONS EXCEEDING THEIR RESPECTIVE RSL.
 5. ALL DETECTIONS WERE COLLECTED USING THE STANDARD METHOD DETECTION LIMIT, BUT BELOW THE LABORATORY REPORTING LIMIT.

REVISIONS:

NO.	DESCRIPTION	BY	DATE
001	ISSUED FOR PERMIT	ACE	03-18-19
002	REVISED PER COMMENTS	PJM	03-18-19
003	REVISED PER COMMENTS	PJM	03-18-19
004	REVISED PER COMMENTS	PJM	03-18-19
005	REVISED PER COMMENTS	PJM	03-18-19

APPROVED: TJB

SCALE: APPROXIMATE SCALE IN FEET

EXPLANATION:

- Location of Underflow
- Location of Double Cased
- Location of "Deep" Monitoring Well
- Location of 4-inch Recovery Well
- Location of Storage Tank
- Location of Surface Water Sample Collection
- Estimated Groundwater Flow Direction
- Estimated Location of Recovered Underground Storage Tank
- Location of Surface Water Sample Collection

0439-RW1
 Recovery Well
 1.00 feet of Free Product
 0.01

Parameter	Value
Recovery	1.00
Flow Direction	SE
Remarks	0.01

Parameter	Value
Recovery	1.00
Flow Direction	SE
Remarks	0.01

Parameter	Value
Recovery	1.00
Flow Direction	SE
Remarks	0.01

Parameter	Value
Recovery	1.00
Flow Direction	SE
Remarks	0.01

Parameter	Value
Recovery	1.00
Flow Direction	SE
Remarks	0.01

Parameter	Value
Recovery	1.00
Flow Direction	SE
Remarks	0.01

Parameter	Value
Recovery	1.00
Flow Direction	SE
Remarks	0.01

Parameter	Value
Recovery	1.00
Flow Direction	SE
Remarks	0.01

Parameter	Value
Recovery	1.00
Flow Direction	SE
Remarks	0.01

Parameter	Value
Recovery	1.00
Flow Direction	SE
Remarks	0.01

Parameter	Value
Recovery	1.00
Flow Direction	SE
Remarks	0.01

Parameter	Value
Recovery	1.00
Flow Direction	SE
Remarks	0.01

Parameter	Value
Recovery	1.00
Flow Direction	SE
Remarks	0.01

Parameter	Value
Recovery	1.00
Flow Direction	SE
Remarks	0.01

Parameter	Value
Recovery	1.00
Flow Direction	SE
Remarks	0.01

APPENDICES

APPENDIX A
DISPOSAL MANIFEST
(PROVIDED UNDER SEPARATE COVER)

APPENDIX B

**MONITORING WELL PURGING AND SAMPLING FIELD PROCEDURES AND
MONITORING WELL PURGING AND SAMPLING LOGS**



APPENDIX B

MONITORING WELL PURGING AND SAMPLING PROCEDURES

If required, the monitoring wells were purged prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the groundwater quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, water temperature, and turbidity were measured periodically during well evacuation using instruments which were calibrated daily. Wells that were evacuated to dryness with less than three well volumes being removed were sampled as soon as the well had recovered enough to yield sufficient volume for a sample.

The monitoring wells were purged using a 3-foot long by 1.6-inch diameter disposable polyethylene bailer attached to an unused polypropylene cord. The wells were also sampled using a bailer as described above. To minimize the potential for cross-contamination between wells, a new clean bailer was used at each well.

Samples were placed in the appropriate laboratory supplied containers and marked with identifying numbers. Samples were maintained at 4°Celsius in a refrigerated sample cooler and shipped to Shealy Environmental Services, Inc. in Columbia, South Carolina via courier service for analysis.

INSTRUMENT CALIBRATION AND FREQUENCY QUALITY ASSURANCE / QUALITY CONTROL (QA/QC)

All Instrument Calibration and frequency methods are consistent with the procedures as outlined in BLE's Annual Contractor Quality Assurance Plan (ACQAP). The following calibration standards were used for calibration purposes on February 13-14, 2019.

Quality Assurance			
pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH = 4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	Turbidity:	1.0-10.0 NTU
Chain of Custody			
Michael Moon	02/15/19 : 1010	Shealy	02/15/19 : 1010

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19

Field Personnel PWA MDM

General weather Conditions Clear

Ambient Air Temperature (°C) 12

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # 03439-MW01

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness 0.02 ft

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 22.85 ft

Length of Water Column (LWC = TWD-DGW) 7.15 ft

1 Casing Volume (LWC * C) = 1.22 gals

3 Casing Volumes = 3 X 365 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling — gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)	<u>—</u>									
pH (s.u)										
Specific Conductivity (OS)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/l)										

Not sampled - FPP

Remarks: Well sampled at — on —

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19

Field Personnel PW + MDM

General weather Conditions Clear

Ambient Air Temperature (°C) 12

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # 03439-MW03

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 22.65 ft

Length of Water Column (LWC = TWD-DGW) 7.35 ft

1 Casing Volume (LWC * C) = _____ X .17 = 1.25 gals

3 Casing Volumes = 3 X _____ = 3.75 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

*If free product is present over 1/8 inch, sampling will not be required.

Volume Purged (gallons)	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Time (military)	<u>---</u>									
pH (s.u)	<u>1405</u>									
Specific Conductivity (OS)	<u>6.23</u>									
Water Temperature (°C)	<u>40.79</u>									
Turbidity (NTU)	<u>17.5</u>									
Dissolved Oxygen (mg/l)	<u>10.7</u>									
	<u>1.2</u>									

No purge

Remarks: Well sampled at 1405 on 2/13/19

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19

Field Personnel PW + MDM

General weather Conditions Clear

Ambient Air Temperature (°C) 12

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # 03439-MW04

Well Diameter (D) 2 inch of 35.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 35.00 ft

Depth to Groundwater (DGW) 21.00 ft

Length of Water Column (LWC = TWD-DGW) 14.00 ft

1 Casing Volume (LWC * C) = _____ X .17 = 2.38 gals

3 Casing Volumes = 3 X _____ = 7.14 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)	<u>1415</u>									
pH (s.u)	<u>6.71</u>									
Specific Conductivity (OS)	<u>28.74</u>									
Water Temperature (°C)	<u>17.8</u>									
Turbidity (NTU)	<u>14.1</u>									
Dissolved Oxygen (mg/l)	<u>1.1</u>									

No purge

Remarks: Well sampled at 1415 on 2/13/19

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19
 Field Personnel PW + MDM
 General weather Conditions clear
 Ambient Air Temperature (°C) 12
 Facility Name: Former Highway 11 Grocery Site ID# 03439
 Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 Standard 15,000
 pH = 7.0 Standard 1,413
 pH = 10.0 Standard 447
 DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU
 Chain of Custody

Well # 03439-MW05
 Well Diameter (D) 2 inch of 35.00 feet(ft)
 conversion factor (C): $3.143 \cdot (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 *Free Product Thickness _____ ft
 Total Well Depth (TWD) 35.00 ft
 Depth to Groundwater (DGW) _____ ft
 Length of Water Column (LWC = TWD-DGW) _____ ft
 1 Casing Volume (LWC * C) = _____ X .17 = _____ gals
 3 Casing Volumes = 3 X _____ = _____ gals
 (Standard Purge Volume)
 Total Volume of Water Purged Before Sampling _____ gals
 *If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	Initial	---										
Time (military)												
pH (s.u)												
Specific Conductivity (OS)												
Water Temperature (°C)												
Turbidity (NTU)												
Dissolved Oxygen (mg/l)												

Not located

Remarks: Well sampled at _____ on _____

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/14

Field Personnel PW & MDM

General weather Conditions Clear

Ambient Air Temperature (°C) 12

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # 03439-MW06

Well Diameter (D) 2 inch of 35.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness 0.01 ft

Total Well Depth (TWD) 35.00 ft

Depth to Groundwater (DGW) 19.77 ft

Length of Water Column (LWC = TWD-DGW) 15.23 ft

1 Casing Volume (LWC * C) = _____ X .17 = 2.59 gals

3 Casing Volumes = 3 X _____ = 7.77 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling — gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)	<u>—</u>									
pH (s.u)										
Specific Conductivity (OS)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/l)										

Not sampled - FPP

Remarks: Well sampled at — on —

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19

Field Personnel PW + MDM

General weather Conditions clear

Ambient Air Temperature (°C) 12

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-MW07

Well Diameter (D) 2 inch of 40.00 feet(ft)

conversion factor (C): $3.143 * (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness ft

Total Well Depth (TWD) 40.00 ft

Depth to Groundwater (DGW) ft

Length of Water Column (LWC = TWD-DGW) ft

1 Casing Volume (LWC*C) = X .17 = gals

3 Casing Volumes = 3 X = gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post

<u> </u>									

Volume Purged (gallons)

Time (military)

pH (s.u)

Specific Conductivity (OS)

Water Temperature (°C)

Turbidity (NTU)

Dissolved Oxygen (mg/l)

Not accessible

Remarks: Well sampled at on

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19 Field Personnel PW
 General weather Conditions CLEAR
 Ambient Air Temperature (°C) 12
 Facility Name: Former Highway 11 Grocery Site ID# 03439
 Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 4.0 Standard 15,000
 pH = 7.0 7.0 Standard 1,413
 pH = 10.0 10.0 Standard 447
 DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU
 Chain of Custody

Well # 03439-MW11
 Well Diameter (D) 2 inch of 23.00 feet(ft)
 conversion factor (C): $3.143 \cdot (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 *Free Product Thickness - ft
 Total Well Depth (TWD) 23.00 ft
 Depth to Groundwater (DGW) 14.69 ft
 Length of Water Column (LWC = TWD-DGW) 8.31 ft
 1 Casing Volume (LWC * C) = 1.41 gals
 3 Casing Volumes = 4.24 gals
 (Standard Purge Volume)
 Total Volume of Water Purged Before Sampling 4.24 gals
 *If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	Initial	---										
Time (military)	<u>1435</u>											
pH (s.u)	<u>5.69</u>											
Specific Conductivity (OS)	<u>1264</u>											
Water Temperature (°C)	<u>17.0</u>											
Turbidity (NTU)	<u>3.89</u>											
Dissolved Oxygen (mg/l)	<u>1.2</u>											

No purge

Remarks: Well sampled at 1435 on 2/13/19

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/14/19
 Field Personnel PV
 General weather Conditions Clear
 Ambient Air Temperature (°C) 15

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 4.0 Standard 15,000
 pH = 7.0 7.0 Standard 1,413
 pH = 10.0 10.0 Standard 447
 DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-MW12
 Well Diameter (D) 2 inch of 12.00 feet(ft)
 conversion factor (C): $3.143 \cdot (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652

*Free Product Thickness _____ ft
 Total Well Depth (TWD) 12.00 ft
 Depth to Groundwater (DGW) 2.35 ft
 Length of Water Column (LWC = TWD-DGW) 9.65 ft
 1 Casing Volume (LWC * C) = _____ X .17 = 1.64 gals
 3 Casing Volumes = 3 X _____ = 4.92 gals
 (Standard Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)	<u>1300</u>									
pH (s.u)	<u>6.10</u>									
Specific Conductivity (OS)	<u>37.66</u>									
Water Temperature (°C)	<u>12.3</u>									
Turbidity (NTU)	<u>7.64</u>									
Dissolved Oxygen (mg/l)	<u>1.0</u>									

No purge

Remarks: Well sampled at 1300 on 2/14/19

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19

Field Personnel PW + MDM

General weather Conditions Clear

Ambient Air Temperature (°C) 12

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # 03439-MW13

Well Diameter (D) 2 inch of 12.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 12.00 ft TD: 13.68

Depth to Groundwater (DGW) 5.84 ft

Length of Water Column (LWC = TWD-DGW) 6.16 ft

1 Casing Volume (LWC * C) = 1.05 gals

3 Casing Volumes = 3 X 3.14 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling — gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)	<u>1300</u>									
pH (s.u)	<u>6.58</u>									
Specific Conductivity (OS)	<u>110.5</u>									
Water Temperature (°C)	<u>14.7</u>									
Turbidity (NTU)	<u>16.2</u>									
Dissolved Oxygen (mg/l)	<u>1.8</u>									

No purge

Remarks: Well sampled at 1300 on 2/13/19

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/14/19

Field Personnel PW

General weather Conditions clear

Ambient Air Temperature (°C) 15

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 Standard 15,000

pH = 7.0 Standard 1,413

pH = 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-MW14

Well Diameter (D) 2 inch of 10.00 feet(ft)

conversion factor (C): $3.143 * (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 10.00 ft

Depth to Groundwater (DGW) 1.26 ft

Length of Water Column (LWC = TWD-DGW) 8.74 ft

1 Casing Volume (LWC*C) = _____ X .17 = 1.49 gals

3 Casing Volumes = 3 X _____ = 4.46 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 7.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	1.5	3.0	4.5	6.0	7.5				
Time (military)	1329	1325	1330	1337	1343	1350				
pH (s.u)	6.44	6.60	6.54	6.71	6.63	6.75				
Specific Conductivity (OS)	90.28	93.65	92.92	94.64	93.05	95.28				
Water Temperature (°C)	13.5	13.3	13.3	13.2	13.6	13.4				
Turbidity (NTU)	12.8	21.5	29.2	17.1	22.8	9.82				
Dissolved Oxygen (mg/l)	0.8	1.0	0.9	0.8	1.0	1.0				

Remarks: Well sampled at 1350 on 2/14/19

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19
 Field Personnel PW + MDM
 General weather Conditions Clear
 Ambient Air Temperature (°C) 12
 Facility Name: Former Highway 11 Grocery Site ID# 03439
 Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 4.0 Standard 15,000
 pH = 7.0 7.0 Standard 1,413
 pH = 10.0 10.0 Standard 447
 DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU
 Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # 03439-MW15
 Well Diameter (D) 2 inch of 9.00 feet(ft)
 conversion factor (C): $3.143 \cdot (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652

*Free Product Thickness _____ ft
 Total Well Depth (TWD) 9.00 ft TD: 12.35
 Depth to Groundwater (DGW) 10.45 ft
 Length of Water Column (LWC = TWD-DGW) 1.90 ft
 1 Casing Volume (LWC * C) = _____ X .17 = 0.32 gals
 3 Casing Volumes = 3 X _____ = 0.97 gals
 (Standard Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)	<u>1325</u>									
pH (s.u)	<u>6.39</u>									
Specific Conductivity (OS)	<u>27.62</u>									
Water Temperature (°C)	<u>15.9</u>									
Turbidity (NTU)	<u>10.7</u>									
Dissolved Oxygen (mg/l)	<u>1.6</u>									

No purge

Remarks: Well sampled at 1325 on 2/13/19

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/14/19

Field Personnel PW

General weather Conditions Clear

Ambient Air Temperature (°C) 15

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # 03439-DMW01

Well Diameter (D) 2 inch of 45.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 45.00 ft

Depth to Groundwater (DGW) 22.80 ft

Length of Water Column (LWC = TWD-DGW) 22.20 ft

1 Casing Volume (LWC * C) = _____ X .17 = 3.77 gals

3 Casing Volumes = 3 X _____ = 11.32 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 12.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	<u>4.0</u>	<u>8.0</u>	<u>12.0</u>						
Time (military)	<u>1018</u>	<u>1022</u>	<u>1024</u>	<u>1028</u>						
pH (s.u)	<u>6.26</u>	<u>6.13</u>	<u>6.06</u>	<u>5.99</u>						
Specific Conductivity (OS)	<u>40.09</u>	<u>42.16</u>	<u>43.21</u>	<u>43.33</u>						
Water Temperature (°C)	<u>18.7</u>	<u>18.9</u>	<u>19.0</u>	<u>19.0</u>						
Turbidity (NTU)	<u>19.3</u>	<u>17.6</u>	<u>15.2</u>	<u>9.69</u>						
Dissolved Oxygen (mg/l)	<u>1.1</u>	<u>1.1</u>	<u>1.0</u>	<u>1.0</u>						

Remarks: Well sampled at 1028 on 2/14/19

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Page _____ of _____

Date 2/14/19 Well # DMW-2

Field Personnel RW Well Diameter (D) _____ inch of _____ feet(ft) bgs

General weather Conditions Clear

Ambient Air Temperature (°C) 15

Facility Name: _____ Site ID# _____

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

conversion factor (C): $3.143 \cdot (D/2)^2$
 for a 2 inch well C = 0.163 for a 6 inch well C = 1.469
 for a 4 inch well C = 0.652 for an 8 inch well C = 2.611

*Free Product Thickness _____ ft
 Total Well Depth (TWD) 75.00 ft bitoc
15.56 ft bitoc
 Depth to Groundwater (DGW) 59.44 ft
 Length of Water Column (LWC = TWD-DGW) 10.10 gals
 1 Casing Volume (LWC*C) = _____ X C = _____
 3 Casing Volumes = 3 X _____ = 30.31 gals
 (Standard Purge Volume)

Total Volume of Water Purged Before Sampling 38.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	10.0	20.0	30.0	34.0	38.0				
Time (military)	1108	1116	1127	1150	1200	1215				
pH (s.u)	7.129	7.36	7.24	7.18	6.85	6.98				
Specific Conductivity (OS)	154.2	119.8	120.2	75.66	74.57	74.69				
Water Temperature (°C)	17.1	17.2	17.0	17.6	17.6	17.3				
Turbidity (NTU)	9.74	18.6	38.5	28.4	22.5	4.93				
Dissolved Oxygen (mg/l)	1.3	1.2	0.9	1.6	1.5	1.4				

Sampled @ 1215 on 2/14/19

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/14/19
 Field Personnel PW
 General weather Conditions Clear
 Ambient Air Temperature (°C) 15
 Facility Name: Former Highway 11 Grocery Site ID# 03439
 Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 4.0 Standard 15,000
 pH = 7.0 7.0 Standard 1,413
 pH = 10.0 10.0 Standard 447
 DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU
 Chain of Custody

Well # 03439-DMW04
 Well Diameter (D) 2 inch of 60.00 feet(ft)
 conversion factor (C): $3.143 \cdot (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 *Free Product Thickness - ft
 Total Well Depth (TWD) 60.00 ft
 Depth to Groundwater (DGW) 23.12 ft
 Length of Water Column (LWC = TWD-DGW) 36.88 ft
 1 Casing Volume (LWC * C) = 6.27 gals
 3 Casing Volumes = 3 X 18.81 gals
 (Standard Purge Volume)
 Total Volume of Water Purged Before Sampling 26.0 gals
 *If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time
Volume Purged (gallons)	1st Vol. <u>6.5</u>	2nd Vol. <u>13.0</u>	3rd Vol. <u>19.5</u>
Time (military)	<u>950</u>	<u>1000</u>	<u>1004</u>
pH (s.u)	<u>6.56</u>	<u>6.43</u>	<u>6.34</u>
Specific Conductivity (OS)	<u>69.15</u>	<u>57.29</u>	<u>57.55</u>
Water Temperature (°C)	<u>17.4</u>	<u>17.9</u>	<u>18.0</u>
Turbidity (NTU)	<u>7.22</u>	<u>8.36</u>	<u>8.71</u>
Dissolved Oxygen (mg/l)	<u>1.6</u>	<u>1.2</u>	<u>1.2</u>

4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
<u>26.0</u>					
<u>1008</u>					
<u>6.40</u>					
<u>57.58</u>					
<u>17.9</u>					
<u>7.98</u>					
<u>1.2</u>					

Remarks: Well sampled at 1008 on 2/14/19

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19
 Field Personnel PW + MDM
 General weather Conditions Clear
 Ambient Air Temperature (°C) 12
 Facility Name: Former Highway 11 Grocery Site ID# 03439
 Quality Assurance
 pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 4.0 Standard 15,000
 pH = 7.0 7.0 Standard 1,413
 pH = 10.0 10.0 Standard 447
 DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU
 Chain of Custody

Well # 03439-RW03
 Well Diameter (D) 2 inch of 30.00 feet(ft)
 conversion factor (C): $3.143 \cdot (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 *Free Product Thickness - ft
 Total Well Depth (TWD) 30.00 ft
 Depth to Groundwater (DGW) 20.13 ft
 Length of Water Column (LWC = TWD-DGW) 9.87 ft
 1 Casing Volume (LWC * C) = 6.42 gals
 3 Casing Volumes = 19.25 gals
 (Standard Purge Volume)
 Total Volume of Water Purged Before Sampling - gals
 *If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time
	Initial	1st Vol.	2nd Vol.
Volume Purged (gallons)	<u>---</u>		
Time (military)	<u>1420</u>		
pH (s.u)	<u>6.07</u>		
Specific Conductivity (OS)	<u>46.38</u>		
Water Temperature (°C)	<u>19.2</u>		
Turbidity (NTU)	<u>16.5</u>		
Dissolved Oxygen (mg/l)	<u>0.9</u>		

4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post

No purge

Remarks: Well sampled at 1420 on 2/13/19

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19
 Field Personnel DW + MDM
 General weather Conditions Clear
 Ambient Air Temperature (°C) 12
 Facility Name: Former Highway 11 Grocery Site ID# 03439
 Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 4.0 Standard 15,000
 pH = 7.0 7.0 Standard 1,413
 pH = 10.0 10.0 Standard 447
 DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 03439-RW04
 Well Diameter (D) 2 inch of 30.00 feet(ft)
 conversion factor (C): $3.143 \cdot (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 *Free Product Thickness 0.01 ft
 Total Well Depth (TWD) 30.00 ft
 Depth to Groundwater (DGW) 20.71 ft
 Length of Water Column (LWC = TWD-DGW) 9.29 ft
 1 Casing Volume (LWC * C) = 0.65 X 0.65 = 6.04 gals
 3 Casing Volumes = 3 X 0.65 = 18.12 gals
 (Standard Purge Volume)
 Total Volume of Water Purged Before Sampling 18.12 gals

*If free product is present over 1/8 inch, sampling will not be required.

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---								
Time (military)	<u> </u>								
pH (s.u)									
Specific Conductivity (OS)									
Water Temperature (°C)									
Turbidity (NTU)									
Dissolved Oxygen (mg/l)									

Not sampled - FPP

Remarks: Well sampled at on

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19

Field Personnel PW & MDM

General weather Conditions Clear

Ambient Air Temperature (°C) 12

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # 03439-RW05

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): $3.143 * (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness 0.20 ft

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 22.17 ft

Length of Water Column (LWC = TWD-DGW) 7.83 ft

1 Casing Volume (LWC*C) = 0.65 X 0.65 = 5.09 gals

3 Casing Volumes = 3 X 0.65 = 15.27 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 15.27 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)	<u>---</u>									
pH (s.u)	<u>---</u>									
Specific Conductivity (OS)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/l)										

Not sampled - FPP

Remarks: Well sampled at _____ on _____

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19
 Field Personnel PW & MDU
 General weather Conditions Clear
 Ambient Air Temperature (°C) 12
 Facility Name: Former Highway 11 Grocery Site ID# 03439
 Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 Standard 15,000
 pH = 7.0 Standard 1,413
 pH = 10.0 Standard 447
 DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU
 Chain of Custody

Well # 03439-RW06
 Well Diameter (D) 2 inch of 26.50 feet(ft)
 conversion factor (C): $3.143 \cdot (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 *Free Product Thickness 1.09 ft
 Total Well Depth (TWD) 26.50 ft
 Depth to Groundwater (DGW) 17.33 ft
 Length of Water Column (LWC = TWD-DGW) 9.17 ft
 1 Casing Volume (LWC * C) = 0.65 X 5.96 = 3.87 gals
 3 Casing Volumes = 3 X 17.88 (Standard Purge Volume) = 53.64 gals
 Total Volume of Water Purged Before Sampling 1 gals
 *If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post

<u>✓</u>									

Not sampled - FPP

Remarks: Well sampled at --- on ---

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19

Field Personnel PW + MDM

General weather Conditions Clear

Ambient Air Temperature (°C) 12

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # 03439-RW07

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness 1.30 ft

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 19.67 ft

Length of Water Column (LWC = TWD-DGW) 10.33 ft

1 Casing Volume (LWC * C) = 6.71 gals

3 Casing Volumes = 3 X 20.14 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling — gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)	<u>—</u>									
pH (s.u)										
Specific Conductivity (OS)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/l)										

Not sampled - FPP

Remarks: Well sampled at — on —

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19
 Field Personnel RW & MDH
 General weather Conditions Clear
 Ambient Air Temperature (°C) 12
 Facility Name: Former Highway 11 Grocery Site ID# 03439
 Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 Standard 15,000
 pH = 7.0 Standard 1,413
 pH = 10.0 Standard 447
 DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU
 Chain of Custody

Well # 03439-RW08
 Well Diameter (D) 2 inch of 28.50 feet(ft)
 conversion factor (C): $3.143 * (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 *Free Product Thickness - ft
 Total Well Depth (TWD) 18.56 ft
 Depth to Groundwater (DGW) 9.94 ft
 Length of Water Column (LWC = TWD-DGW) 6.46 ft
 1 Casing Volume (LWC*C) = 6.46 gals
 3 Casing Volumes = 3 X 19.38 gals
 (Standard Purge Volume)

Total Volume of Water Purged Before Sampling - gals
 *If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time
Volume Purged (gallons)	Initial	1st Vol.	2nd Vol.
Time (military)	<u>1520</u>	3rd Vol.	4th Vol.
pH (s.u)	<u>6.53</u>	5th Vol.	6th Vol.
Specific Conductivity (OS)	<u>154.1</u>	7th Vol.	8th Vol.
Water Temperature (°C)	<u>17.2</u>	Post	
Turbidity (NTU)	<u>7.58</u>		
Dissolved Oxygen (mg/l)	<u>0.7</u>		

None sampled - WATER
No purge O₂ 2/13/19
 Remarks: Well sampled at 1520 on 2/13/19

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19

Field Personnel PW & MBM

General weather Conditions Clear

Ambient Air Temperature (°C) 12

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # 03439-RW09

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): $3.143 * (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 19.60 ft

Length of Water Column (LWC = TWD-DGW) 10.40 ft

1 Casing Volume (LWC*C) = _____ X .65 = 6.76 gals

3 Casing Volumes = 3 X _____ = 20.28 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)	<u>1525</u>									
pH (s.u)	<u>6.50</u>									
Specific Conductivity (OS)	<u>85.75</u>									
Water Temperature (°C)	<u>17.4</u>									
Turbidity (NTU)	<u>16.3</u>									
Dissolved Oxygen (mg/l)	<u>0.7</u>									

*No purge
Odeat*

Remarks: Well sampled at 1525 on 2/13/19

BLE INC

BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19
Field Personnel PLW + MDM
General weather Conditions Clear
Ambient Air Temperature (°C) 12

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
serial no. 324976 serial no. 324976
pH = 4.0 4.0 Standard 15,000
pH = 7.0 7.0 Standard 1,413
pH = 10.0 10.0 Standard 447
DO Meter YSI 60 Standard 84
Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # 03439-RW10
Well Diameter (D) 2 inch of 30.00 feet(ft)
conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness _____ ft
Total Well Depth (TWD) 30.00 ft
Depth to Groundwater (DGW) 18.35 ft
Length of Water Column (LWC = TWD-DGW) 11.65 ft
1 Casing Volume (LWC * C) = _____ X .65 = 7.57 gals
3 Casing Volumes = 3 X _____ = 22.72 gals
(Standard Purge Volume)
Total Volume of Water Purged Before Sampling _____ gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)	<u>1545</u>									
pH (s.u)	<u>6.32</u>									
Specific Conductivity (OS)	<u>48.55</u>									
Water Temperature (°C)	<u>17.1</u>									
Turbidity (NTU)	<u>9.26</u>									
Dissolved Oxygen (mg/l)	<u>0.8</u>									

No purge

Remarks: Well sampled at 1545 on 2/13/19 Dup @ 1547 on 2/13/19

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19

Field Personnel PLW & MDM

General weather Conditions Clear

Ambient Air Temperature (°C) 12

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-RW11

Well Diameter (D) 2 inch of 27.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness - ft

Total Well Depth (TWD) 27.00 ft

Depth to Groundwater (DGW) 14.76 ft

Length of Water Column (LWC = TWD-DGW) 12.44 ft

1 Casing Volume (LWC * C) = 8.09 gals

3 Casing Volumes = 3 X 24.26 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling - gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)	<u>1540</u>									
pH (s.u)	<u>6.64</u>									
Specific Conductivity (OS)	<u>151.3</u>									
Water Temperature (°C)	<u>17.0</u>									
Turbidity (NTU)	<u>13.3</u>									
Dissolved Oxygen (mg/l)	<u>0.6</u>									

No purge

Remarks: Well sampled at 1540 on 2/13/19

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19

Field Personnel RW + MDM

General weather Conditions Clear

Ambient Air Temperature (°C) 12

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # 03439-RW12

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): $3.143 * (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 17.20 ft

Length of Water Column (LWC = TWD-DGW) 12.80 ft

1 Casing Volume (LWC*C) = _____ X .65 = 8.32 gals

3 Casing Volumes = 3 X _____ X _____ = 24.96 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)	<u>1550</u>									
pH (s.u)	<u>6.48</u>									
Specific Conductivity (OS)	<u>75.67</u>									
Water Temperature (°C)	<u>16.8</u>									
Turbidity (NTU)	<u>5.37</u>									
Dissolved Oxygen (mg/l)	<u>0.9</u>									

No purge

Remarks: Well sampled at 1550 on 2/13/19

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19

Field Personnel RW & MDM

General weather Conditions Clear

Ambient Air Temperature (°C) 12

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-RW13

Well Diameter (D) 2 inch of 29.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness - ft

Total Well Depth (TWD) 29.00 ft

Depth to Groundwater (DGW) 16.02 ft

Length of Water Column (LWC = TWD-DGW) 12.98 ft

1 Casing Volume (LWC * C) = 8.44 gals

3 Casing Volumes = 3 X 25.31 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling - gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	Initial	---										
Time (military)	<u>1555</u>											
pH (s.u)	<u>6.08</u>											
Specific Conductivity (OS)	<u>27.73</u>											
Water Temperature (°C)	<u>17.1</u>											
Turbidity (NTU)	<u>10.2</u>											
Dissolved Oxygen (mg/l)	<u>0.6</u>											

No purge

Remarks: Well sampled at 1555 on 2/13/19

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19

Field Personnel RW & MDM

General weather Conditions clear

Ambient Air Temperature (°C) 12

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-RW14

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness 2.36 ft

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 24.09 ft

Length of Water Column (LWC = TWD-DGW) 5.91 ft

1 Casing Volume (LWC * C) = 3.84 gals

3 Casing Volumes = 3 X 11.52 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling — gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---											
Time (military)	---											
pH (s.u)												
Specific Conductivity (OS)												
Water Temperature (°C)												
Turbidity (NTU)												
Dissolved Oxygen (mg/l)												

Not sampled - FPP

Remarks: Well sampled at — on —

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19

Field Personnel PW + MDM

General weather Conditions Clear

Ambient Air Temperature (°C) 17

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-RW15

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness 0.09 ft

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 21.21 ft

Length of Water Column (LWC = TWD-DGW) 8.79 ft

1 Casing Volume (LWC * C) = 5.71 gals

3 Casing Volumes = 3 X 17.14 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 1 gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)									
Time (military)									
pH (s.u)									
Specific Conductivity (OS)									
Water Temperature (°C)									
Turbidity (NTU)									
Dissolved Oxygen (mg/l)									

Not sampled - FPP

Remarks: Well sampled at on

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19

Field Personnel PW + MDM

General weather Conditions clear

Ambient Air Temperature (°C) 12

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # 03439-RW16

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 19.65 ft

Length of Water Column (LWC = TWD-DGW) 10.35 ft

1 Casing Volume (LWC * C) = _____ X .65 = 6.73 gals

3 Casing Volumes = 3 X _____ = 20.18 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	<u>1515</u>									
Time (military)	<u>0800</u>									
pH (s.u)	<u>6.32</u>									
Specific Conductivity (OS)	<u>116.8</u>									
Water Temperature (°C)	<u>17.2</u>									
Turbidity (NTU)	<u>7.35</u>									
Dissolved Oxygen (mg/l)	<u>0.9</u>									

No purge

Remarks: 1515 Well sampled at 0800 on 2/13/19

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 2/13/19
 Field Personnel PW + MDM
 General weather Conditions Clear
 Ambient Air Temperature (°C) 12
 Facility Name: Former Highway 11 Grocery Site ID# 03439
 Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 4.0 Standard 15,000
 pH = 7.0 7.0 Standard 1,413
 pH = 10.0 10.0 Standard 447
 DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU

Well # 03439-RW17
 Well Diameter (D) 2 inch of 30.00 feet(ft)
 conversion factor (C): $3.143 * (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 *Free Product Thickness _____ ft
 Total Well Depth (TWD) 30.00 ft
 Depth to Groundwater (DGW) 16.09 ft
 Length of Water Column (LWC = TWD-DGW) 13.91 ft
 1 Casing Volume (LWC*C) = _____ X .65 = 9.04 gals
 3 Casing Volumes = 3 X _____ = 27.12 gals
 (Standard Purge Volume)
 Total Volume of Water Purged Before Sampling _____ gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)	<u>1510</u>									
pH (s.u)	<u>5.99</u>									
Specific Conductivity (OS)	<u>22.55</u>									
Water Temperature (°C)	<u>16.2</u>									
Turbidity (NTU)	<u>6.34</u>									
Dissolved Oxygen (mg/l)	<u>1.1</u>									

No purge

Remarks: Well sampled at 1510 on 2/13/19

APPENDIX C

LABORATORY DATA SHEETS

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Bunnell-Lammons Engineering, Inc.

6004 Ponders Court
Greenville, SC 29615
Attention: Trevor Benton

Project Name: Hwy 11 Grocery

Project Number: UST 03439

Lot Number: **UB15036**

Date Completed: 02/25/2019



02/25/2019 4:21 PM

Approved and released by:
Lab Director - Greenville: Lucas Odom



The electronic signature above is the equivalent of a handwritten signature.
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SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Bunnell-Lammons Engineering, Inc. Lot Number: UB15036

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 NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary Bunnell-Lammons Engineering, Inc. Lot Number: UB15036

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	03439-WSW01	Aqueous	02/13/2019 1440	02/15/2019
002	03439-WSW01 Dup	Aqueous	02/13/2019 1442	02/15/2019
003	03439-WSW FB	Aqueous	02/13/2019 1445	02/15/2019
004	03439-TB	Aqueous	02/13/2019	02/15/2019

(4 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Detection Summary
Bunnell-Lammons Engineering, Inc.
Lot Number: UB15036

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
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(0 detections)

Description: 03439-WSW01

Matrix: Aqueous

Date Sampled: 02/13/2019 1440

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/18/2019 1751	JJG		97884		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1	
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
Bromofluorobenzene		118	70-130						
1,2-Dichloroethane-d4		119	70-130						
Toluene-d8		117	70-130						

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	524.2	524.2	1	02/22/2019 1635	BWS		98464		
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		99	70-130						
1,2-Dichlorobenzene-d4		98	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	504.1	504.1	1	02/21/2019 1117	DAL1	02/21/2019 0908	98257		
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	

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: **03439-WSW01**Matrix: **Aqueous**Date Sampled: **02/13/2019 1440**Date Received: **02/15/2019**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		89	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-WSW01 Dup

Matrix: Aqueous

Date Sampled: 02/13/2019 1442

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/18/2019 1817	JJG		97884		
Parameter		CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Diisopropyl ether (IPE)		108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol		64-17-5	8260B	ND		100	52	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		10	0.42	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		20	8.0	ug/L	1
tert-Butyl formate (TBF)		762-75-4	8260B	ND		5.0	2.0	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
Bromofluorobenzene		117	70-130						
1,2-Dichloroethane-d4		121	70-130						
Toluene-d8		117	70-130						

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	524.2	524.2	1	02/22/2019 1701	BWS		98464		
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		96	70-130						
1,2-Dichlorobenzene-d4		96	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	504.1	504.1	1	02/21/2019 1142	DAL1	02/21/2019 0908	98257		
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

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: **03439-WSW01 Dup**Matrix: **Aqueous**Date Sampled: **02/13/2019 1442**Date Received: **02/15/2019**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		92	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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 \geq DL

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-WSW FB

Matrix: Aqueous

Date Sampled: 02/13/2019 1445

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/18/2019 1844	JJG		97884		
Parameter		CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Diisopropyl ether (IPE)		108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol		64-17-5	8260B	ND		100	52	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		10	0.42	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		20	8.0	ug/L	1
tert-Butyl formate (TBF)		762-75-4	8260B	ND		5.0	2.0	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
Bromofluorobenzene		118	70-130						
1,2-Dichloroethane-d4		121	70-130						
Toluene-d8		117	70-130						

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	524.2	524.2	1	02/22/2019 1726	BWS		98464		
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		95	70-130						
1,2-Dichlorobenzene-d4		98	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	504.1	504.1	1	02/21/2019 1206	DAL1	02/21/2019 0908	98257		
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

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		90	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-TB

Matrix: Aqueous

Date Sampled: 02/13/2019

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/18/2019 1910	JJG		97884		
Parameter		CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
Diisopropyl ether (IPE)		108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethanol		64-17-5	8260B	ND		100	52	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND		1.0	0.40	ug/L	1
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND		10	0.42	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	8260B	ND		20	8.0	ug/L	1
tert-Butyl formate (TBF)		762-75-4	8260B	ND		5.0	2.0	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
Bromofluorobenzene		118	70-130						
1,2-Dichloroethane-d4		118	70-130						
Toluene-d8		117	70-130						

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	524.2	524.2	1	02/22/2019 1751	BWS		98464		
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		94	70-130						
1,2-Dichlorobenzene-d4		101	70-130						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ97884-001

Matrix: Aqueous

Batch: 97884

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Diisopropyl ether (IPE)	ND		1	5.0	0.40	ug/L	02/18/2019 1059
Ethanol	ND		1	100	52	ug/L	02/18/2019 1059
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	02/18/2019 1059
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	02/18/2019 1059
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	02/18/2019 1059
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	02/18/2019 1059
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	02/18/2019 1059
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	02/18/2019 1059

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		118	70-130
1,2-Dichloroethane-d4		121	70-130
Toluene-d8		118	70-130

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ97884-002

Matrix: Aqueous

Batch: 97884

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Diisopropyl ether (IPE)	50	55		1	110	70-130	02/18/2019 1007
Ethanol	5000	4600		1	92	70-130	02/18/2019 1007
3,3-Dimethyl-1-butanol	1000	1000		1	102	70-130	02/18/2019 1007
Ethyl-tert-butyl ether (ETBE)	50	51		1	102	70-130	02/18/2019 1007
tert-Amyl alcohol (TAA)	1000	1000		1	100	70-130	02/18/2019 1007
tert-Amyl methyl ether (TAME)	50	53		1	107	70-130	02/18/2019 1007
tert-butyl alcohol (TBA)	1000	1000		1	100	70-130	02/18/2019 1007
tert-Butyl formate (TBF)	250	270		1	106	70-130	02/18/2019 1007

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		118	70-130
1,2-Dichloroethane-d4		117	70-130
Toluene-d8		113	70-130

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ98464-001

Matrix: Aqueous

Batch: 98464

Prep Method: 524.2

Analytical Method: 524.2

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Benzene	ND		1	0.50	0.40	ug/L	02/22/2019 1508
1,2-Dichloroethane	ND		1	0.50	0.40	ug/L	02/22/2019 1508
Ethylbenzene	ND		1	0.50	0.40	ug/L	02/22/2019 1508
Methyl tertiary butyl ether (MTBE)	ND		1	0.50	0.40	ug/L	02/22/2019 1508
Naphthalene	ND		1	0.50	0.40	ug/L	02/22/2019 1508
Toluene	ND		1	0.50	0.40	ug/L	02/22/2019 1508
Xylenes (total)	ND		1	0.50	0.40	ug/L	02/22/2019 1508
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		95	70-130				
1,2-Dichlorobenzene-d4		98	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ98464-002

Matrix: Aqueous

Batch: 98464

Prep Method: 524.2

Analytical Method: 524.2

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	5.0	5.0		1	100	70-130	02/22/2019 1442
1,2-Dichloroethane	5.0	5.0		1	101	70-130	02/22/2019 1442
Ethylbenzene	5.0	5.1		1	101	70-130	02/22/2019 1442
Methyl tertiary butyl ether (MTBE)	5.0	4.7		1	94	70-130	02/22/2019 1442
Naphthalene	5.0	5.2		1	103	70-130	02/22/2019 1442
Toluene	5.0	4.9		1	98	70-130	02/22/2019 1442
Xylenes (total)	10	10		1	101	70-130	02/22/2019 1442
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		99	70-130				
1,2-Dichlorobenzene-d4		103	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - MB

Sample ID: UQ98257-001

Matrix: Aqueous

Batch: 98257

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 02/21/2019 908

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0040	ug/L	02/21/2019 1041
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		92	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - LCS

Sample ID: UQ98257-002

Matrix: Aqueous

Batch: 98257

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 02/21/2019 908

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.25		1	99	70-130	02/21/2019 1053
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		94	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - MS

Sample ID: UB15036-001MS

Matrix: Aqueous

Batch: 98257

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 02/21/2019 908

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.23		1	94	70-130	02/21/2019 1130
Surrogate	Q	% Rec	Acceptance Limit					
1,1,1,2-Tetrachloroethane		93	57-137					

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - Duplicate

Sample ID: UB15036-002DU

Matrix: Aqueous

Batch: 98257

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 02/21/2019 908

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	ND		1	0.00	20	02/21/2019 1154
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		87	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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**Chain of Custody
and
Miscellaneous Documents**

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: ME0018C-14

Page 1 of 1
Effective Date: 8/2/2018

Sample Receipt Checklist (SRC)

Client: BE Cooler Inspected by/date: ETB / 2-15-19 Lot #: UB15076

Means of receipt: <input checked="" type="checkbox"/> SESI <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	
<input type="checkbox"/> Yes <input type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: <u>NA</u> Chlorine Strip ID: <u>NA</u> Tested by: <u>NA</u>	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt: <u>14/14°C</u> %Solid Snap-Cup ID: <u>NA</u>	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>S</u> IR Gun Correction Factor: <u>0</u> °C	
Method of coolant: <input type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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).
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₃ /TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote # <u>21138</u>
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> ml. of circle one: H2SO4, HNO3, HCl, NaOH using SR # _____	
Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below.	
Sample(s) <u>NA</u> were received with bubbles >6 mm in diameter.	
Samples(s) <u>NA</u> were received with TRC > 0.5 mg/L (If #19 is <i>no</i>) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: _____	
SR barcode labels applied by: <u>ETB</u> Date: <u>2-15-19</u>	

Comments:

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Bunnell-Lammons Engineering, Inc.

6004 Ponders Court
Greenville, SC 29615
Attention: Trevor Benton

Project Name: Hwy 11 Grocery

Project Number: UST 03439

Lot Number: **UB16001**

Date Completed: 02/22/2019



02/22/2019 2:31 PM

Approved and released by:
Lab Director - Greenville: Lucas Odom



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SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Bunnell-Lammons Engineering, Inc. Lot Number: UB16001

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 NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

EDB by Microextraction

Sample -022 has been qualified with a "P" as the relative percent difference between the two GC columns exceeds method criteria for EDB. Per SCDHEC, the lesser of the two values has been reported.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary Bunnell-Lammons Engineering, Inc. Lot Number: UB16001

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	03439-MW02	Aqueous	02/13/2019 1400	02/15/2019
002	03439-MW03	Aqueous	02/13/2019 1405	02/15/2019
003	03439-MW04	Aqueous	02/13/2019 1415	02/15/2019
004	03439-MW08	Aqueous	02/13/2019 1530	02/15/2019
005	03439-MW08 DUP	Aqueous	02/13/2019 1532	02/15/2019
006	03439-MW09	Aqueous	02/14/2019 1240	02/15/2019
007	03439-MW10	Aqueous	02/13/2019 1430	02/15/2019
008	03439-MW11	Aqueous	02/13/2019 1435	02/15/2019
009	03439-MW12	Aqueous	02/14/2019 1300	02/15/2019
010	03439-MW13	Aqueous	02/13/2019 1300	02/15/2019
011	03439-MW14	Aqueous	02/14/2019 1350	02/15/2019
012	03439-MW15	Aqueous	02/13/2019 1325	02/15/2019
013	03439-DMW01	Aqueous	02/14/2019 1028	02/15/2019
014	03439-DMW02	Aqueous	02/14/2019 1215	02/15/2019
015	03439-DMW04	Aqueous	02/14/2019 1008	02/15/2019
016	03439-RW01	Aqueous	02/13/2019 1350	02/15/2019
017	03439-RW03	Aqueous	02/13/2019 1420	02/15/2019
018	03439-RW08	Aqueous	02/13/2019 1520	02/15/2019
019	03439-RW09	Aqueous	02/13/2019 1525	02/15/2019
020	03439-RW10	Aqueous	02/13/2019 1545	02/15/2019
021	03439-RW10 DUP	Aqueous	02/13/2019 1547	02/15/2019
022	03439-RW11	Aqueous	02/13/2019 1540	02/15/2019
023	03439-RW12	Aqueous	02/13/2019 1550	02/15/2019
024	03439-RW13	Aqueous	02/13/2019 1555	02/15/2019
025	03439-RW16	Aqueous	02/13/2019 1515	02/15/2019
026	03439-RW17	Aqueous	02/13/2019 1510	02/15/2019
027	03439-CK01	Aqueous	02/13/2019 1645	02/15/2019
028	03439-CK02	Aqueous	02/13/2019 1630	02/15/2019
029	03439-CK03	Aqueous	02/13/2019 1615	02/15/2019
030	03439-CK04	Aqueous	02/13/2019 1705	02/15/2019
031	03439-FB01	Aqueous	02/13/2019 1245	02/15/2019
032	03439-FB02	Aqueous	02/14/2019 0930	02/15/2019
033	03439-TB	Aqueous	02/13/2019	02/15/2019

(33 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Detection Summary Bunnell-Lammons Engineering, Inc. Lot Number: UB16001

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
004	03439-MW08	Aqueous	tert-Amyl alcohol (TAA)	8260B	830	J	ug/L	10
004	03439-MW08	Aqueous	tert-Amyl methyl ether	8260B	92	J	ug/L	10
004	03439-MW08	Aqueous	Benzene	8260B	2000		ug/L	10
004	03439-MW08	Aqueous	Diisopropyl ether (IPE)	8260B	51	J	ug/L	10
004	03439-MW08	Aqueous	Ethylbenzene	8260B	2100		ug/L	10
004	03439-MW08	Aqueous	Methyl tertiary butyl ether	8260B	490		ug/L	10
004	03439-MW08	Aqueous	Naphthalene	8260B	410		ug/L	10
004	03439-MW08	Aqueous	Toluene	8260B	12000		ug/L	10
004	03439-MW08	Aqueous	Xylenes (total)	8260B	13000		ug/L	10
005	03439-MW08 DUP	Aqueous	tert-Amyl alcohol (TAA)	8260B	940	J	ug/L	11
005	03439-MW08 DUP	Aqueous	tert-Amyl methyl ether	8260B	81	J	ug/L	11
005	03439-MW08 DUP	Aqueous	Benzene	8260B	2100		ug/L	11
005	03439-MW08 DUP	Aqueous	Diisopropyl ether (IPE)	8260B	55	J	ug/L	11
005	03439-MW08 DUP	Aqueous	Ethylbenzene	8260B	2200		ug/L	11
005	03439-MW08 DUP	Aqueous	Methyl tertiary butyl ether	8260B	500		ug/L	11
005	03439-MW08 DUP	Aqueous	Naphthalene	8260B	430		ug/L	11
005	03439-MW08 DUP	Aqueous	Toluene	8260B	16000		ug/L	11
005	03439-MW08 DUP	Aqueous	Xylenes (total)	8260B	13000		ug/L	11
011	03439-MW14	Aqueous	tert-Amyl alcohol (TAA)	8260B	100	J	ug/L	17
011	03439-MW14	Aqueous	tert-Amyl methyl ether	8260B	10	J	ug/L	17
011	03439-MW14	Aqueous	Benzene	8260B	220		ug/L	17
011	03439-MW14	Aqueous	Diisopropyl ether (IPE)	8260B	6.5	J	ug/L	17
011	03439-MW14	Aqueous	Ethylbenzene	8260B	480		ug/L	17
011	03439-MW14	Aqueous	Methyl tertiary butyl ether	8260B	60		ug/L	17
011	03439-MW14	Aqueous	Naphthalene	8260B	140		ug/L	17
011	03439-MW14	Aqueous	Toluene	8260B	530		ug/L	17
011	03439-MW14	Aqueous	Xylenes (total)	8260B	2700		ug/L	17
016	03439-RW01	Aqueous	tert-Amyl methyl ether	8260B	470	J	ug/L	22
016	03439-RW01	Aqueous	Benzene	8260B	3800		ug/L	22
016	03439-RW01	Aqueous	Diisopropyl ether (IPE)	8260B	190	J	ug/L	22
016	03439-RW01	Aqueous	Ethylbenzene	8260B	2800		ug/L	22
016	03439-RW01	Aqueous	Methyl tertiary butyl ether	8260B	3800		ug/L	22
016	03439-RW01	Aqueous	Naphthalene	8260B	710	J	ug/L	22
016	03439-RW01	Aqueous	Toluene	8260B	24000		ug/L	22
016	03439-RW01	Aqueous	Xylenes (total)	8260B	21000		ug/L	22
017	03439-RW03	Aqueous	tert-Amyl alcohol (TAA)	8260B	31		ug/L	23
017	03439-RW03	Aqueous	tert-Amyl methyl ether	8260B	12		ug/L	23
017	03439-RW03	Aqueous	Benzene	8260B	55		ug/L	23
017	03439-RW03	Aqueous	1,2-Dichloroethane	8260B	1.3	J	ug/L	23
017	03439-RW03	Aqueous	Diisopropyl ether (IPE)	8260B	6.4		ug/L	23
017	03439-RW03	Aqueous	Ethylbenzene	8260B	11		ug/L	23
017	03439-RW03	Aqueous	Methyl tertiary butyl ether	8260B	120		ug/L	23
017	03439-RW03	Aqueous	Naphthalene	8260B	25		ug/L	23
017	03439-RW03	Aqueous	tert-butyl alcohol (TBA)	8260B	22		ug/L	23
017	03439-RW03	Aqueous	Toluene	8260B	180		ug/L	23

Detection Summary (Continued)

Lot Number: UB16001

Sample ID	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
017	03439-RW03	Aqueous	Xylenes (total)	8260B	380		ug/L	23
018	03439-RW08	Aqueous	Benzene	8260B	2900		ug/L	24
018	03439-RW08	Aqueous	Ethylbenzene	8260B	2500		ug/L	24
018	03439-RW08	Aqueous	Methyl tertiary butyl ether	8260B	570	J	ug/L	24
018	03439-RW08	Aqueous	Naphthalene	8260B	360	J	ug/L	24
018	03439-RW08	Aqueous	Toluene	8260B	19000		ug/L	24
018	03439-RW08	Aqueous	Xylenes (total)	8260B	13000		ug/L	24
018	03439-RW08	Aqueous	1,2-Dibromoethane (EDB)	8011	0.038		ug/L	24
019	03439-RW09	Aqueous	Benzene	8260B	4.4	J	ug/L	25
019	03439-RW09	Aqueous	Ethylbenzene	8260B	45		ug/L	25
019	03439-RW09	Aqueous	Methyl tertiary butyl ether	8260B	2.0	J	ug/L	25
019	03439-RW09	Aqueous	Naphthalene	8260B	12		ug/L	25
019	03439-RW09	Aqueous	Toluene	8260B	58		ug/L	25
019	03439-RW09	Aqueous	Xylenes (total)	8260B	290		ug/L	25
020	03439-RW10	Aqueous	tert-Amyl alcohol (TAA)	8260B	13	J	ug/L	26
020	03439-RW10	Aqueous	tert-Amyl methyl ether	8260B	1.2	J	ug/L	26
020	03439-RW10	Aqueous	Benzene	8260B	3.6	J	ug/L	26
020	03439-RW10	Aqueous	Diisopropyl ether (IPE)	8260B	0.97	J	ug/L	26
020	03439-RW10	Aqueous	Methyl tertiary butyl ether	8260B	11		ug/L	26
020	03439-RW10	Aqueous	Toluene	8260B	2.5	J	ug/L	26
020	03439-RW10	Aqueous	Xylenes (total)	8260B	0.68	J	ug/L	26
021	03439-RW10 DUP	Aqueous	tert-Amyl alcohol (TAA)	8260B	13	J	ug/L	27
021	03439-RW10 DUP	Aqueous	tert-Amyl methyl ether	8260B	1.2	J	ug/L	27
021	03439-RW10 DUP	Aqueous	Benzene	8260B	3.6	J	ug/L	27
021	03439-RW10 DUP	Aqueous	Diisopropyl ether (IPE)	8260B	0.92	J	ug/L	27
021	03439-RW10 DUP	Aqueous	Methyl tertiary butyl ether	8260B	11		ug/L	27
021	03439-RW10 DUP	Aqueous	Toluene	8260B	2.6	J	ug/L	27
021	03439-RW10 DUP	Aqueous	Xylenes (total)	8260B	1.1	J	ug/L	27
022	03439-RW11	Aqueous	tert-Amyl alcohol (TAA)	8260B	900	J	ug/L	28
022	03439-RW11	Aqueous	tert-Amyl methyl ether	8260B	130	J	ug/L	28
022	03439-RW11	Aqueous	Benzene	8260B	2700		ug/L	28
022	03439-RW11	Aqueous	Diisopropyl ether (IPE)	8260B	75	J	ug/L	28
022	03439-RW11	Aqueous	Ethylbenzene	8260B	2600		ug/L	28
022	03439-RW11	Aqueous	Methyl tertiary butyl ether	8260B	860		ug/L	28
022	03439-RW11	Aqueous	Naphthalene	8260B	590		ug/L	28
022	03439-RW11	Aqueous	Toluene	8260B	17000		ug/L	28
022	03439-RW11	Aqueous	Xylenes (total)	8260B	16000		ug/L	28
022	03439-RW11	Aqueous	1,2-Dibromoethane (EDB)	8011	0.023	P	ug/L	28
023	03439-RW12	Aqueous	tert-Amyl alcohol (TAA)	8260B	62	J	ug/L	29
023	03439-RW12	Aqueous	tert-Amyl methyl ether	8260B	6.1	J	ug/L	29
023	03439-RW12	Aqueous	Benzene	8260B	110		ug/L	29
023	03439-RW12	Aqueous	Diisopropyl ether (IPE)	8260B	4.9	J	ug/L	29
023	03439-RW12	Aqueous	Ethylbenzene	8260B	95		ug/L	29
023	03439-RW12	Aqueous	Methyl tertiary butyl ether	8260B	46		ug/L	29
023	03439-RW12	Aqueous	Naphthalene	8260B	21	J	ug/L	29
023	03439-RW12	Aqueous	Toluene	8260B	420		ug/L	29
023	03439-RW12	Aqueous	Xylenes (total)	8260B	640		ug/L	29
024	03439-RW13	Aqueous	tert-Amyl alcohol (TAA)	8260B	8.1	J	ug/L	30

Detection Summary (Continued)

Lot Number: UB16001

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
024	03439-RW13	Aqueous	tert-Amyl methyl ether	8260B	0.97	J	ug/L	30
024	03439-RW13	Aqueous	Benzene	8260B	0.63	J	ug/L	30
024	03439-RW13	Aqueous	Diisopropyl ether (IPE)	8260B	1.1	J	ug/L	30
024	03439-RW13	Aqueous	Methyl tertiary butyl ether	8260B	11		ug/L	30
024	03439-RW13	Aqueous	Xylenes (total)	8260B	0.81	J	ug/L	30
025	03439-RW16	Aqueous	Benzene	8260B	310	J	ug/L	31
025	03439-RW16	Aqueous	Ethylbenzene	8260B	4000		ug/L	31
025	03439-RW16	Aqueous	Naphthalene	8260B	620	J	ug/L	31
025	03439-RW16	Aqueous	Toluene	8260B	32000		ug/L	31
025	03439-RW16	Aqueous	Xylenes (total)	8260B	22000		ug/L	31
026	03439-RW17	Aqueous	Ethylbenzene	8260B	14		ug/L	32
026	03439-RW17	Aqueous	Naphthalene	8260B	7.4		ug/L	32
026	03439-RW17	Aqueous	Toluene	8260B	5.0		ug/L	32
026	03439-RW17	Aqueous	Xylenes (total)	8260B	92		ug/L	32
027	03439-CK01	Aqueous	Benzene	8260B	0.98	J	ug/L	33
027	03439-CK01	Aqueous	Ethylbenzene	8260B	1.2	J	ug/L	33
027	03439-CK01	Aqueous	Methyl tertiary butyl ether	8260B	1.1	J	ug/L	33
027	03439-CK01	Aqueous	Toluene	8260B	2.1	J	ug/L	33
027	03439-CK01	Aqueous	Xylenes (total)	8260B	6.0		ug/L	33
028	03439-CK02	Aqueous	Benzene	8260B	4.4	J	ug/L	34
028	03439-CK02	Aqueous	Ethylbenzene	8260B	5.6		ug/L	34
028	03439-CK02	Aqueous	Methyl tertiary butyl ether	8260B	3.0	J	ug/L	34
028	03439-CK02	Aqueous	Naphthalene	8260B	1.3	J	ug/L	34
028	03439-CK02	Aqueous	Toluene	8260B	16		ug/L	34
028	03439-CK02	Aqueous	Xylenes (total)	8260B	30		ug/L	34
029	03439-CK03	Aqueous	Benzene	8260B	4.1	J	ug/L	35
029	03439-CK03	Aqueous	Ethylbenzene	8260B	5.5		ug/L	35
029	03439-CK03	Aqueous	Methyl tertiary butyl ether	8260B	2.7	J	ug/L	35
029	03439-CK03	Aqueous	Naphthalene	8260B	1.2	J	ug/L	35
029	03439-CK03	Aqueous	Toluene	8260B	15		ug/L	35
029	03439-CK03	Aqueous	Xylenes (total)	8260B	29		ug/L	35
030	03439-CK04	Aqueous	Toluene	8260B	0.52	J	ug/L	36
030	03439-CK04	Aqueous	Xylenes (total)	8260B	1.8	J	ug/L	36

(126 detections)

Description: 03439-MW02

Matrix: Aqueous

Date Sampled: 02/13/2019 1400

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/19/2019 0310	MNS		97959

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		126	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		117	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/21/2019 1818	DAL1	02/18/2019 0951	97831

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		91	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

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Description: 03439-MW03

Matrix: Aqueous

Date Sampled: 02/13/2019 1405

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/19/2019 0336	MNS		97959

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		128	70-130
Bromofluorobenzene		109	70-130
Toluene-d8		117	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/21/2019 1850	DAL1	02/18/2019 1425	97893

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		82	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

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Description: 03439-MW04

Matrix: Aqueous

Date Sampled: 02/13/2019 1415

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/19/2019 0403	MNS		97959

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		128	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		116	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/21/2019 1912	DAL1	02/18/2019 1425	97893

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		90	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-MW08

Matrix: Aqueous

Date Sampled: 02/13/2019 1530

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	02/19/2019 0456	MNS		97959
2	5030B	8260B	200	02/20/2019 0332	MNS		98123

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	830	J	1000	400	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	92	J	500	21	ug/L	1
Benzene	71-43-2	8260B	2000		250	20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		250	100	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		250	20	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	51	J	250	20	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		1000	400	ug/L	1
Ethanol	64-17-5	8260B	ND		5000	2600	ug/L	1
Ethylbenzene	100-41-4	8260B	2100		250	20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		50	20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	490		250	20	ug/L	1
Naphthalene	91-20-3	8260B	410		250	20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		1000	400	ug/L	1
Toluene	108-88-3	8260B	12000		1000	80	ug/L	2
Xylenes (total)	1330-20-7	8260B	13000		250	20	ug/L	1

Surrogate	Q	Run 1	Acceptance	Q	Run 2	Acceptance
		% Recovery	Limits		% Recovery	Limits
1,2-Dichloroethane-d4		127	70-130		96	70-130
Bromofluorobenzene		117	70-130		96	70-130
Toluene-d8		117	70-130		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/21/2019 1933	DAL1	02/18/2019 1425	97893

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1	Acceptance
		% Recovery	Limits
1,1,1,2-Tetrachloroethane		99	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	02/19/2019 0522	MNS		97959
2	5030B	8260B	200	02/20/2019 0355	MNS		98123

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	940	J	1000	400	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	81	J	500	21	ug/L	1
Benzene	71-43-2	8260B	2100		250	20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		250	100	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		250	20	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	55	J	250	20	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		1000	400	ug/L	1
Ethanol	64-17-5	8260B	ND		5000	2600	ug/L	1
Ethylbenzene	100-41-4	8260B	2200		250	20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		50	20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	500		250	20	ug/L	1
Naphthalene	91-20-3	8260B	430		250	20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		1000	400	ug/L	1
Toluene	108-88-3	8260B	16000		1000	80	ug/L	2
Xylenes (total)	1330-20-7	8260B	13000		250	20	ug/L	1

Surrogate	Q	Run 1	Acceptance	Q	Run 2	Acceptance
		% Recovery	Limits		% Recovery	Limits
1,2-Dichloroethane-d4		125	70-130		93	70-130
Bromofluorobenzene		112	70-130		92	70-130
Toluene-d8		115	70-130		93	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/21/2019 1943	DAL1	02/18/2019 1425	97893

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1	Acceptance
		% Recovery	Limits
1,1,1,2-Tetrachloroethane		91	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-MW09

Matrix: Aqueous

Date Sampled: 02/14/2019 1240

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/19/2019 1118	JJG		98017

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/21/2019 1954	DAL1	02/18/2019 1425	97893

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		89	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-MW10

Matrix: Aqueous

Date Sampled: 02/13/2019 1430

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/19/2019 1140	JJG		98017

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/21/2019 2005	DAL1	02/18/2019 1425	97893

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		90	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-MW11

Matrix: Aqueous

Date Sampled: 02/13/2019 1435

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/19/2019 1203	JJG		98017

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/21/2019 2016	DAL1	02/18/2019 1425	97893

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		93	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-MW12

Matrix: Aqueous

Date Sampled: 02/14/2019 1300

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/19/2019 1226	JJG		98017

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		94	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/21/2019 2027	DAL1	02/18/2019 1425	97893

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		95	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-MW13

Matrix: Aqueous

Date Sampled: 02/13/2019 1300

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/19/2019 1249	JJG		98017

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/21/2019 2037	DAL1	02/18/2019 1425	97893

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		80	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-MW14

Matrix: Aqueous

Date Sampled: 02/14/2019 1350

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
2	5030B	8260B	10	02/20/2019 1115	JJG		98190		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	100	J	200	80	ug/L	2	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	10	J	100	4.2	ug/L	2	
Benzene	71-43-2	8260B	220		50	4.0	ug/L	2	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		50	20	ug/L	2	
1,2-Dichloroethane	107-06-2	8260B	ND		50	4.0	ug/L	2	
Diisopropyl ether (IPE)	108-20-3	8260B	6.5	J	50	4.0	ug/L	2	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		200	80	ug/L	2	
Ethanol	64-17-5	8260B	ND		1000	520	ug/L	2	
Ethylbenzene	100-41-4	8260B	480		50	4.0	ug/L	2	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		10	4.0	ug/L	2	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	60		50	4.0	ug/L	2	
Naphthalene	91-20-3	8260B	140		50	4.0	ug/L	2	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		200	80	ug/L	2	
Toluene	108-88-3	8260B	530		50	4.0	ug/L	2	
Xylenes (total)	1330-20-7	8260B	2700		50	4.0	ug/L	2	
Surrogate	Q	Run 2 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		97	70-130						
Bromofluorobenzene		96	70-130						
Toluene-d8		98	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/21/2019 2048	DAL1	02/18/2019 1425	97893		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		113	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-MW15

Matrix: Aqueous

Date Sampled: 02/13/2019 1325

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/19/2019 1333	JJG		98017

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/21/2019 2059	DAL1	02/18/2019 1425	97893

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		95	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

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Description: 03439-DMW01

Matrix: Aqueous

Date Sampled: 02/14/2019 1028

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/19/2019 1355	JJG		98017

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/21/2019 2109	DAL1	02/18/2019 1425	97893

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		96	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

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Description: 03439-DMW02

Matrix: Aqueous

Date Sampled: 02/14/2019 1215

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/19/2019 1417	JJG		98017

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		93	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/21/2019 2120	DAL1	02/18/2019 1425	97893

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		97	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-DMW04

Matrix: Aqueous

Date Sampled: 02/14/2019 1008

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/19/2019 1439	JJG		98017

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/21/2019 2131	DAL1	02/18/2019 1425	97893

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		95	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW01

Matrix: Aqueous

Date Sampled: 02/13/2019 1350

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	02/19/2019 1501	JJG		98017

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	470	J	2000	84	ug/L	1
Benzene	71-43-2	8260B	3800		1000	80	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	400	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1000	80	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	190	J	1000	80	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		4000	1600	ug/L	1
Ethanol	64-17-5	8260B	ND		20000	10000	ug/L	1
Ethylbenzene	100-41-4	8260B	2800		1000	80	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	3800		1000	80	ug/L	1
Naphthalene	91-20-3	8260B	710	J	1000	80	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		4000	1600	ug/L	1
Toluene	108-88-3	8260B	24000		1000	80	ug/L	1
Xylenes (total)	1330-20-7	8260B	21000		1000	80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/21/2019 2141	DAL1	02/18/2019 1425	97893

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	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

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW03

Matrix: Aqueous

Date Sampled: 02/13/2019 1420

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
2	5030B	8260B	1	02/20/2019 1137	JJG		98190		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	31		20	8.0	ug/L	2	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	12		10	0.42	ug/L	2	
Benzene	71-43-2	8260B	55		5.0	0.40	ug/L	2	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	2	
1,2-Dichloroethane	107-06-2	8260B	1.3	J	5.0	0.40	ug/L	2	
Diisopropyl ether (IPE)	108-20-3	8260B	6.4		5.0	0.40	ug/L	2	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	2	
Ethanol	64-17-5	8260B	ND		100	52	ug/L	2	
Ethylbenzene	100-41-4	8260B	11		5.0	0.40	ug/L	2	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	2	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	120		5.0	0.40	ug/L	2	
Naphthalene	91-20-3	8260B	25		5.0	0.40	ug/L	2	
tert-butyl alcohol (TBA)	75-65-0	8260B	22		20	8.0	ug/L	2	
Toluene	108-88-3	8260B	180		5.0	0.40	ug/L	2	
Xylenes (total)	1330-20-7	8260B	380		5.0	0.40	ug/L	2	
Surrogate	Q	Run 2 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		94	70-130						
Bromofluorobenzene		95	70-130						
Toluene-d8		98	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/21/2019 2152	DAL1	02/18/2019 1425	97893		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		85	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW08

Matrix: Aqueous

Date Sampled: 02/13/2019 1520

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	02/19/2019 1546	JJG		98017

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		2000	84	ug/L	1
Benzene	71-43-2	8260B	2900		1000	80	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	400	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1000	80	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1000	80	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		4000	1600	ug/L	1
Ethanol	64-17-5	8260B	ND		20000	10000	ug/L	1
Ethylbenzene	100-41-4	8260B	2500		1000	80	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	570	J	1000	80	ug/L	1
Naphthalene	91-20-3	8260B	360	J	1000	80	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		4000	1600	ug/L	1
Toluene	108-88-3	8260B	19000		1000	80	ug/L	1
Xylenes (total)	1330-20-7	8260B	13000		1000	80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/21/2019 2202	DAL1	02/18/2019 1425	97893

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.038		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		86	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW09

Matrix: Aqueous

Date Sampled: 02/13/2019 1525

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
2	5030B	8260B	1	02/20/2019 1159	JJG		98190	
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	2
Benzene	71-43-2	8260B	4.4	J	5.0	0.40	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	2
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	2
Ethanol	64-17-5	8260B	ND		100	52	ug/L	2
Ethylbenzene	100-41-4	8260B	45		5.0	0.40	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	2.0	J	5.0	0.40	ug/L	2
Naphthalene	91-20-3	8260B	12		5.0	0.40	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	2
Toluene	108-88-3	8260B	58		5.0	0.40	ug/L	2
Xylenes (total)	1330-20-7	8260B	290		5.0	0.40	ug/L	2
Surrogate	Q	Run 2 % Recovery	Acceptance Limits					
1,2-Dichloroethane-d4		97	70-130					
Bromofluorobenzene		94	70-130					
Toluene-d8		98	70-130					

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	8011	8011	1	02/21/2019 2213	DAL1	02/18/2019 1425	97893	
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
1,1,1,2-Tetrachloroethane		96	57-137					

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW10

Matrix: Aqueous

Date Sampled: 02/13/2019 1545

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/19/2019 1631	JJG		98017		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	13	J	20	8.0	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	1.2	J	10	0.42	ug/L	1	
Benzene	71-43-2	8260B	3.6	J	5.0	0.40	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	0.97	J	5.0	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	11		5.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1	
Toluene	108-88-3	8260B	2.5	J	5.0	0.40	ug/L	1	
Xylenes (total)	1330-20-7	8260B	0.68	J	5.0	0.40	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		91	70-130						
Bromofluorobenzene		99	70-130						
Toluene-d8		97	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/21/2019 2223	DAL1	02/18/2019 1425	97893		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		91	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/19/2019 1654	JJG		98017		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	13	J	20	8.0	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	1.2	J	10	0.42	ug/L	1	
Benzene	71-43-2	8260B	3.6	J	5.0	0.40	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	0.92	J	5.0	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	11		5.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1	
Toluene	108-88-3	8260B	2.6	J	5.0	0.40	ug/L	1	
Xylenes (total)	1330-20-7	8260B	1.1	J	5.0	0.40	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/21/2019 2234	DAL1	02/18/2019 1425	97893		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		99	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW11

Matrix: Aqueous

Date Sampled: 02/13/2019 1540

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	100	02/19/2019 1716	JJG		98017		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	900	J	2000	800	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	130	J	1000	42	ug/L	1	
Benzene	71-43-2	8260B	2700		500	40	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	200	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		500	40	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	75	J	500	40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		2000	800	ug/L	1	
Ethanol	64-17-5	8260B	ND		10000	5200	ug/L	1	
Ethylbenzene	100-41-4	8260B	2600		500	40	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	40	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	860		500	40	ug/L	1	
Naphthalene	91-20-3	8260B	590		500	40	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		2000	800	ug/L	1	
Toluene	108-88-3	8260B	17000		500	40	ug/L	1	
Xylenes (total)	1330-20-7	8260B	16000		500	40	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		94	70-130						
Bromofluorobenzene		102	70-130						
Toluene-d8		99	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/21/2019 2317	DAL1	02/18/2019 1425	97894		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	0.023	P	0.020	0.020	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

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW12

Matrix: Aqueous

Date Sampled: 02/13/2019 1550

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	5	02/19/2019 1739	JJG		98017		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	62	J	100	40	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	6.1	J	50	2.1	ug/L	1	
Benzene	71-43-2	8260B	110		25	2.0	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		25	10	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		25	2.0	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	4.9	J	25	2.0	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	40	ug/L	1	
Ethanol	64-17-5	8260B	ND		500	260	ug/L	1	
Ethylbenzene	100-41-4	8260B	95		25	2.0	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	2.0	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	46		25	2.0	ug/L	1	
Naphthalene	91-20-3	8260B	21	J	25	2.0	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	40	ug/L	1	
Toluene	108-88-3	8260B	420		25	2.0	ug/L	1	
Xylenes (total)	1330-20-7	8260B	640		25	2.0	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		92	70-130						
Bromofluorobenzene		102	70-130						
Toluene-d8		97	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/21/2019 2338	DAL1	02/18/2019 1425	97894		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		103	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW13

Matrix: Aqueous

Date Sampled: 02/13/2019 1555

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/19/2019 1801	JJG		98017		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	8.1	J	20	8.0	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	0.97	J	10	0.42	ug/L	1	
Benzene	71-43-2	8260B	0.63	J	5.0	0.40	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	1.1	J	5.0	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1	
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	11		5.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1	
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1	
Xylenes (total)	1330-20-7	8260B	0.81	J	5.0	0.40	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		90	70-130						
Bromofluorobenzene		96	70-130						
Toluene-d8		93	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/21/2019 2359	DAL1	02/18/2019 1425	97894		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		93	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW16

Matrix: Aqueous

Date Sampled: 02/13/2019 1515

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	02/19/2019 1823	JJG		98017

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		2000	84	ug/L	1
Benzene	71-43-2	8260B	310	J	1000	80	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	400	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1000	80	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		1000	80	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		4000	1600	ug/L	1
Ethanol	64-17-5	8260B	ND		20000	10000	ug/L	1
Ethylbenzene	100-41-4	8260B	4000		1000	80	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		1000	80	ug/L	1
Naphthalene	91-20-3	8260B	620	J	1000	80	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		4000	1600	ug/L	1
Toluene	108-88-3	8260B	32000		1000	80	ug/L	1
Xylenes (total)	1330-20-7	8260B	22000		1000	80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/22/2019 0010	DAL1	02/18/2019 1425	97894

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		96	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW17

Matrix: Aqueous

Date Sampled: 02/13/2019 1510

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/19/2019 1914	JJG		98019

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	14		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	7.4		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	5.0		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	92		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		120	70-130
Bromofluorobenzene		109	70-130
Toluene-d8		116	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/22/2019 0020	DAL1	02/18/2019 1425	97894

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		100	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-CK01

Matrix: Aqueous

Date Sampled: 02/13/2019 1645

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/19/2019 1152	JJG		98019		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1	
Benzene	71-43-2	8260B	0.98	J	5.0	0.40	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1	
Ethylbenzene	100-41-4	8260B	1.2	J	5.0	0.40	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	1.1	J	5.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1	
Toluene	108-88-3	8260B	2.1	J	5.0	0.40	ug/L	1	
Xylenes (total)	1330-20-7	8260B	6.0		5.0	0.40	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		113	70-130						
Bromofluorobenzene		107	70-130						
Toluene-d8		117	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/22/2019 0031	DAL1	02/18/2019 1425	97894		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		93	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-CK02

Matrix: Aqueous

Date Sampled: 02/13/2019 1630

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260B	1	02/19/2019 1217	JJG		98019		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1	
Benzene	71-43-2	8260B	4.4	J	5.0	0.40	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1	
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1	
Ethylbenzene	100-41-4	8260B	5.6		5.0	0.40	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	3.0	J	5.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260B	1.3	J	5.0	0.40	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1	
Toluene	108-88-3	8260B	16		5.0	0.40	ug/L	1	
Xylenes (total)	1330-20-7	8260B	30		5.0	0.40	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		117	70-130						
Bromofluorobenzene		111	70-130						
Toluene-d8		117	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	02/22/2019 0042	DAL1	02/18/2019 1425	97894		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		93	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-CK03

Matrix: Aqueous

Date Sampled: 02/13/2019 1615

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/19/2019 1243	JJG		98019

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	4.1	J	5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	5.5		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	2.7	J	5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	1.2	J	5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	15		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	29		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		115	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		116	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/22/2019 0052	DAL1	02/18/2019 1425	97894

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		97	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-CK04

Matrix: Aqueous

Date Sampled: 02/13/2019 1705

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/19/2019 1310	JJG		98019

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	0.52	J	5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	1.8	J	5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		118	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		119	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/22/2019 0103	DAL1	02/18/2019 1425	97894

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		94	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-FB01

Matrix: Aqueous

Date Sampled: 02/13/2019 1245

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	5030B	8260B	1	02/19/2019 1335	JJG		98019	
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		118	70-130
Bromofluorobenzene		109	70-130
Toluene-d8		118	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	8011	8011	1	02/22/2019 0114	DAL1	02/18/2019 1425	97894	
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
1,1,1,2-Tetrachloroethane		94	57-137					

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-FB02

Matrix: Aqueous

Date Sampled: 02/14/2019 0930

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/19/2019 1401	JJG		98019

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		118	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		116	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	02/22/2019 0124	DAL1	02/18/2019 1425	97894

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		97	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-TB

Matrix: Aqueous

Date Sampled: 02/13/2019

Date Received: 02/15/2019

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/19/2019 1427	JJG		98019

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.42	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND		100	52	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		119	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		117	70-130

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ97959-001

Matrix: Aqueous

Batch: 97959

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	02/18/2019 2233
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	02/18/2019 2233
Benzene	ND		1	5.0	0.40	ug/L	02/18/2019 2233
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	02/18/2019 2233
1,2-Dichloroethane	ND		1	5.0	0.40	ug/L	02/18/2019 2233
Diisopropyl ether (IPE)	ND		1	5.0	0.40	ug/L	02/18/2019 2233
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	02/18/2019 2233
Ethanol	ND		1	100	52	ug/L	02/18/2019 2233
Ethylbenzene	ND		1	5.0	0.40	ug/L	02/18/2019 2233
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	02/18/2019 2233
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	02/18/2019 2233
Naphthalene	ND		1	5.0	0.40	ug/L	02/18/2019 2233
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	02/18/2019 2233
Toluene	ND		1	5.0	0.40	ug/L	02/18/2019 2233
Xylenes (total)	ND		1	5.0	0.40	ug/L	02/18/2019 2233

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		120	70-130
Bromofluorobenzene		117	70-130
Toluene-d8		118	70-130

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ97959-002

Matrix: Aqueous

Batch: 97959

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1200		1	115	70-130	02/18/2019 2141
tert-Amyl methyl ether (TAME)	50	55		1	111	70-130	02/18/2019 2141
Benzene	50	52		1	103	70-130	02/18/2019 2141
tert-Butyl formate (TBF)	250	280		1	110	70-130	02/18/2019 2141
1,2-Dichloroethane	50	61		1	122	70-130	02/18/2019 2141
Diisopropyl ether (IPE)	50	58		1	116	70-130	02/18/2019 2141
3,3-Dimethyl-1-butanol	1000	1100		1	114	70-130	02/18/2019 2141
Ethanol	5000	5200		1	103	70-130	02/18/2019 2141
Ethylbenzene	50	56		1	112	70-130	02/18/2019 2141
Ethyl-tert-butyl ether (ETBE)	50	52		1	105	70-130	02/18/2019 2141
Methyl tertiary butyl ether (MTBE)	50	53		1	107	70-130	02/18/2019 2141
Naphthalene	50	51		1	102	70-130	02/18/2019 2141
tert-butyl alcohol (TBA)	1000	1100		1	113	70-130	02/18/2019 2141
Toluene	50	56		1	111	70-130	02/18/2019 2141
Xylenes (total)	100	110		1	112	70-130	02/18/2019 2141
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		115	70-130				
Bromofluorobenzene		119	70-130				
Toluene-d8		113	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ98017-001

Matrix: Aqueous

Batch: 98017

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	02/19/2019 1035
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	02/19/2019 1035
Benzene	ND		1	5.0	0.40	ug/L	02/19/2019 1035
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	02/19/2019 1035
1,2-Dichloroethane	ND		1	5.0	0.40	ug/L	02/19/2019 1035
Diisopropyl ether (IPE)	ND		1	5.0	0.40	ug/L	02/19/2019 1035
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	02/19/2019 1035
Ethanol	ND		1	100	52	ug/L	02/19/2019 1035
Ethylbenzene	ND		1	5.0	0.40	ug/L	02/19/2019 1035
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	02/19/2019 1035
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	02/19/2019 1035
Naphthalene	ND		1	5.0	0.40	ug/L	02/19/2019 1035
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	02/19/2019 1035
Toluene	ND		1	5.0	0.40	ug/L	02/19/2019 1035
Xylenes (total)	ND		1	5.0	0.40	ug/L	02/19/2019 1035

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ98017-002

Matrix: Aqueous

Batch: 98017

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	107	70-130	02/19/2019 0951
tert-Amyl methyl ether (TAME)	50	52		1	105	70-130	02/19/2019 0951
Benzene	50	51		1	101	70-130	02/19/2019 0951
tert-Butyl formate (TBF)	250	300		1	120	70-130	02/19/2019 0951
1,2-Dichloroethane	50	50		1	101	70-130	02/19/2019 0951
Diisopropyl ether (IPE)	50	57		1	114	70-130	02/19/2019 0951
3,3-Dimethyl-1-butanol	1000	1100		1	108	70-130	02/19/2019 0951
Ethanol	5000	5700		1	115	70-130	02/19/2019 0951
Ethylbenzene	50	51		1	102	70-130	02/19/2019 0951
Ethyl-tert-butyl ether (ETBE)	50	54		1	109	70-130	02/19/2019 0951
Methyl tertiary butyl ether (MTBE)	50	49		1	99	70-130	02/19/2019 0951
Naphthalene	50	47		1	94	70-130	02/19/2019 0951
tert-butyl alcohol (TBA)	1000	1000		1	104	70-130	02/19/2019 0951
Toluene	50	50		1	100	70-130	02/19/2019 0951
Xylenes (total)	100	100		1	101	70-130	02/19/2019 0951
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		97	70-130				
Bromofluorobenzene		100	70-130				
Toluene-d8		99	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MS

Sample ID: UB16001-025MS

Matrix: Aqueous

Batch: 98017

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	200000	220000		200	110	70-130	02/19/2019 1846
tert-Amyl methyl ether (TAME)	ND	10000	11000		200	106	70-130	02/19/2019 1846
Benzene	310	10000	11000		200	107	70-130	02/19/2019 1846
tert-Butyl formate (TBF)	ND	50000	61000		200	122	70-130	02/19/2019 1846
1,2-Dichloroethane	ND	10000	11000		200	105	70-130	02/19/2019 1846
Diisopropyl ether (IPE)	ND	10000	12000		200	120	70-130	02/19/2019 1846
3,3-Dimethyl-1-butanol	ND	200000	210000		200	103	70-130	02/19/2019 1846
Ethanol	ND	1000000	1200000		200	116	70-130	02/19/2019 1846
Ethylbenzene	4000	10000	14000		200	103	70-130	02/19/2019 1846
Ethyl-tert-butyl ether (ETBE)	ND	10000	11000		200	113	70-130	02/19/2019 1846
Methyl tertiary butyl ether (MTBE)	ND	10000	10000		200	103	70-130	02/19/2019 1846
Naphthalene	620	10000	10000		200	96	70-130	02/19/2019 1846
tert-butyl alcohol (TBA)	ND	200000	210000		200	106	70-130	02/19/2019 1846
Toluene	32000	10000	41000	E	200	89	70-130	02/19/2019 1846
Xylenes (total)	22000	20000	42000		200	100	70-130	02/19/2019 1846

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MSD

Sample ID: UB16001-025MD

Matrix: Aqueous

Batch: 98017

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	200000	220000		200	111	0.39	70-130	20	02/19/2019 1908
tert-Amyl methyl ether (TAME)	ND	10000	11000		200	108	2.2	70-130	20	02/19/2019 1908
Benzene	310	10000	11000		200	107	0.23	70-130	20	02/19/2019 1908
tert-Butyl formate (TBF)	ND	50000	59000		200	119	2.9	70-130	20	02/19/2019 1908
1,2-Dichloroethane	ND	10000	10000		200	105	0.23	70-130	20	02/19/2019 1908
Diisopropyl ether (IPE)	ND	10000	12000		200	121	0.54	70-130	20	02/19/2019 1908
3,3-Dimethyl-1-butanol	ND	200000	210000		200	107	3.6	70-130	20	02/19/2019 1908
Ethanol	ND	1000000	1200000		200	115	0.80	70-130	20	02/19/2019 1908
Ethylbenzene	4000	10000	14000		200	101	1.8	70-130	20	02/19/2019 1908
Ethyl-tert-butyl ether (ETBE)	ND	10000	11000		200	113	0.64	70-130	20	02/19/2019 1908
Methyl tertiary butyl ether (MTBE)	ND	10000	10000		200	101	1.8	70-130	20	02/19/2019 1908
Naphthalene	620	10000	10000		200	96	0.051	70-130	20	02/19/2019 1908
tert-butyl alcohol (TBA)	ND	200000	210000		200	106	0.21	70-130	20	02/19/2019 1908
Toluene	32000	10000	41000	E	200	92	0.76	70-130	20	02/19/2019 1908
Xylenes (total)	22000	20000	42000		200	99	0.71	70-130	20	02/19/2019 1908

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		98	70-130

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ98019-001

Matrix: Aqueous

Batch: 98019

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	02/19/2019 1108
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	02/19/2019 1108
Benzene	ND		1	5.0	0.40	ug/L	02/19/2019 1108
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	02/19/2019 1108
1,2-Dichloroethane	ND		1	5.0	0.40	ug/L	02/19/2019 1108
Diisopropyl ether (IPE)	ND		1	5.0	0.40	ug/L	02/19/2019 1108
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	02/19/2019 1108
Ethanol	ND		1	100	52	ug/L	02/19/2019 1108
Ethylbenzene	ND		1	5.0	0.40	ug/L	02/19/2019 1108
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	02/19/2019 1108
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	02/19/2019 1108
Naphthalene	ND		1	5.0	0.40	ug/L	02/19/2019 1108
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	02/19/2019 1108
Toluene	ND		1	5.0	0.40	ug/L	02/19/2019 1108
Xylenes (total)	ND		1	5.0	0.40	ug/L	02/19/2019 1108
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		112	70-130				
Bromofluorobenzene		108	70-130				
Toluene-d8		117	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ98019-002

Matrix: Aqueous

Batch: 98019

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	108	70-130	02/19/2019 1016
tert-Amyl methyl ether (TAME)	50	54		1	108	70-130	02/19/2019 1016
Benzene	50	52		1	103	70-130	02/19/2019 1016
tert-Butyl formate (TBF)	250	270		1	109	70-130	02/19/2019 1016
1,2-Dichloroethane	50	55		1	110	70-130	02/19/2019 1016
Diisopropyl ether (IPE)	50	58		1	115	70-130	02/19/2019 1016
3,3-Dimethyl-1-butanol	1000	1100		1	106	70-130	02/19/2019 1016
Ethanol	5000	5000		1	100	70-130	02/19/2019 1016
Ethylbenzene	50	56		1	112	70-130	02/19/2019 1016
Ethyl-tert-butyl ether (ETBE)	50	53		1	106	70-130	02/19/2019 1016
Methyl tertiary butyl ether (MTBE)	50	52		1	104	70-130	02/19/2019 1016
Naphthalene	50	51		1	103	70-130	02/19/2019 1016
tert-butyl alcohol (TBA)	1000	1100		1	105	70-130	02/19/2019 1016
Toluene	50	55		1	110	70-130	02/19/2019 1016
Xylenes (total)	100	110		1	111	70-130	02/19/2019 1016
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		109	70-130				
Bromofluorobenzene		108	70-130				
Toluene-d8		115	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ98123-001

Matrix: Aqueous

Batch: 98123

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Toluene	ND		1	5.0	0.40	ug/L	02/19/2019 2141
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		95	70-130				
Bromofluorobenzene		100	70-130				
Toluene-d8		97	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ98123-002

Matrix: Aqueous

Batch: 98123

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Toluene	50	50		1	101	70-130	02/19/2019 2056
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		96	70-130				
Bromofluorobenzene		98	70-130				
Toluene-d8		98	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MS

Sample ID: UB16001-005MS

Matrix: Aqueous

Batch: 98123

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Toluene	16000	10000	23000		200	71	70-130	02/20/2019 0525
Surrogate	Q	% Rec	Acceptance Limit					
1,2-Dichloroethane-d4		95	70-130					
Bromofluorobenzene		97	70-130					
Toluene-d8		97	70-130					

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MSD

Sample ID: UB16001-005MD

Matrix: Aqueous

Batch: 98123

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Toluene	16000	10000	30000	N,+	200	134	24	70-130	20	02/20/2019 0547
Surrogate	Q	% Rec	Acceptance Limit							
1,2-Dichloroethane-d4		89	70-130							
Bromofluorobenzene		93	70-130							
Toluene-d8		93	70-130							

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ98190-001

Matrix: Aqueous

Batch: 98190

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	02/20/2019 1035
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	02/20/2019 1035
Benzene	ND		1	5.0	0.40	ug/L	02/20/2019 1035
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	02/20/2019 1035
1,2-Dichloroethane	ND		1	5.0	0.40	ug/L	02/20/2019 1035
Diisopropyl ether (IPE)	ND		1	5.0	0.40	ug/L	02/20/2019 1035
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	02/20/2019 1035
Ethanol	ND		1	100	52	ug/L	02/20/2019 1035
Ethylbenzene	ND		1	5.0	0.40	ug/L	02/20/2019 1035
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	02/20/2019 1035
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	02/20/2019 1035
Naphthalene	ND		1	5.0	0.40	ug/L	02/20/2019 1035
tert-butyl alcohol (TBA)	ND		1	20	8.0	ug/L	02/20/2019 1035
Toluene	ND		1	5.0	0.40	ug/L	02/20/2019 1035
Xylenes (total)	ND		1	5.0	0.40	ug/L	02/20/2019 1035

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		91	70-130
Toluene-d8		91	70-130

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ98190-002

Matrix: Aqueous

Batch: 98190

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	108	70-130	02/20/2019 0951
tert-Amyl methyl ether (TAME)	50	53		1	107	70-130	02/20/2019 0951
Benzene	50	50		1	100	70-130	02/20/2019 0951
tert-Butyl formate (TBF)	250	300		1	121	70-130	02/20/2019 0951
1,2-Dichloroethane	50	52		1	103	70-130	02/20/2019 0951
Diisopropyl ether (IPE)	50	57		1	115	70-130	02/20/2019 0951
3,3-Dimethyl-1-butanol	1000	1000		1	105	70-130	02/20/2019 0951
Ethanol	5000	5500		1	110	70-130	02/20/2019 0951
Ethylbenzene	50	51		1	101	70-130	02/20/2019 0951
Ethyl-tert-butyl ether (ETBE)	50	54		1	107	70-130	02/20/2019 0951
Methyl tertiary butyl ether (MTBE)	50	49		1	98	70-130	02/20/2019 0951
Naphthalene	50	46		1	92	70-130	02/20/2019 0951
tert-butyl alcohol (TBA)	1000	1000		1	104	70-130	02/20/2019 0951
Toluene	50	49		1	99	70-130	02/20/2019 0951
Xylenes (total)	100	100		1	101	70-130	02/20/2019 0951
Surrogate	Q	% Rec			Acceptance Limit		
1,2-Dichloroethane-d4		99			70-130		
Bromofluorobenzene		96			70-130		
Toluene-d8		96			70-130		

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - MB

Sample ID: UQ97831-001

Matrix: Aqueous

Batch: 97831

Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/18/2019 951

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	02/20/2019 1332
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		96	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - LCS

Sample ID: UQ97831-002

Matrix: Aqueous

Batch: 97831

Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/18/2019 951

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.28		1	112	60-140	02/20/2019 1343
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		101	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - MB

Sample ID: UQ97893-001

Matrix: Aqueous

Batch: 97893

Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/18/2019 1425

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	02/21/2019 1829
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		95	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - LCS

Sample ID: UQ97893-002

Matrix: Aqueous

Batch: 97893

Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/18/2019 1425

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.27		1	109	60-140	02/21/2019 1840
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		97	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - MS

Sample ID: UB16001-002MS

Matrix: Aqueous

Batch: 97893

Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/18/2019 1425

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.23		1	95	60-140	02/21/2019 1901
Surrogate	Q	% Rec	Acceptance Limit					
1,1,1,2-Tetrachloroethane		90	57-137					

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

EDB & DBCP by Microextraction - Duplicate

Sample ID: UB16001-003DU

Matrix: Aqueous

Batch: 97893

Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/18/2019 1425

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	ND		1	0.00	20	02/21/2019 1922
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		90	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

EDB & DBCP by Microextraction - MB

Sample ID: UQ97894-001

Matrix: Aqueous

Batch: 97894

Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/18/2019 1425

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	02/21/2019 2256
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		96	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

EDB & DBCP by Microextraction - LCS

Sample ID: UQ97894-002

Matrix: Aqueous

Batch: 97894

Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/18/2019 1425

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.30		1	119	60-140	02/21/2019 2306
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		95	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

EDB & DBCP by Microextraction - MS

Sample ID: UB16001-022MS

Matrix: Aqueous

Batch: 97894

Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/18/2019 1425

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.023	0.25	0.26		1	94	60-140	02/21/2019 2327
Surrogate	Q	% Rec	Acceptance Limit					
1,1,1,2-Tetrachloroethane		89	57-137					

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

EDB & DBCP by Microextraction - Duplicate

Sample ID: UB16001-023DU

Matrix: Aqueous

Batch: 97894

Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/18/2019 1425

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	ND		1	0.00	20	02/21/2019 2349
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		101	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

**Chain of Custody
and
Miscellaneous Documents**

92402

Number

SHEALY ENVIRONMENTAL SERVICES, INC.
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.shealylab.com

Chain of Custody Record



Quote No. _____

Telephone No. / E-mail: 803-346-8208 / peter.beaton@ble.com

Analysis (Attach list if more space is needed): 2 of 4

Barcode: **UJB16001**

---ID remains/counter: 144

Report to Contact: Trevor Beaton

Sampler's Signature: [Signature]

Printed Name: Peter J. Wylie

Matrix: Water

Sample ID / Description: 03439 - MW14

City: Caneville

State: SC

Zip Code: 29615

Project Name: Hwy 11 Grocery

Project No.: 03439

Date: 2/14/19

Time: 1350

Sample ID / Description: MW15

Date: 2/13/19

Time: 1325

Sample ID / Description: DMW01

Date: 2/14/19

Time: 1028

Sample ID / Description: DMW02

Date: 2/14/19

Time: 1215

Sample ID / Description: DMW04

Date: 2/14/19

Time: 1008

Sample ID / Description: RW01

Date: 2/13/19

Time: 1350

Sample ID / Description: RW03

Date: _____

Time: 1420

Sample ID / Description: RW08

Date: _____

Time: 1520

Sample ID / Description: RW09

Date: _____

Time: 1525

Sample ID / Description: 03439 - RW10

Date: 2/13/19

Time: 1545

Time Around Time Required (Plus lab approval required for expedient TAT): _____

Standard: 11 Rush (Specify): _____

1. Requisitioned by: Peter J. Wylie

2. Requisitioned by: _____

3. Requisitioned by: _____

4. Requisitioned by: Matthew D.P.

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

Sample ID / Description	Date	Time	Received by	Date	Time
03439 - MW14	2/14/19	1350	Matthew D.P.	2/15/19	1010
MW15	2/13/19	1325			
DMW01	2/14/19	1028			
DMW02	2/14/19	1215			
DMW04	2/14/19	1008			
RW01	2/13/19	1350			
RW03		1420			
RW08		1520			
RW09		1525			
03439 - RW10	2/13/19	1545			

QC Requirements (Specify): _____

Possible Hazard Identification: Lab Non-Hazard Flammable Skin Irritant Poison Unknown

1. Received by: Matthew D.P.

2. Received by: _____

3. Received by: _____

4. Laboratory received by: J Hill

LAB USE ONLY


Resulted on ice (Circle): Yes No Ice Pack Yes No

Receiv. Temp: 2.1 °C

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 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.shealylab.com

Number 84380

Chain of Custody Record

Client BLE	Report to Contact Trevor Benton	Telephone No. / E-mail 803-346-8200 / trevor.benton@blecorp.com	Quote No. Page 3 of 4
Address 6004 Penders Court Greenville, SC 29615	Sampler's Signature  Printed Name: Peter J. Wyle	Analysis (Attach list if more space is necessary) VOL 8260R FDR 8011	LJO LJB16001
Project Name Hwy 11 Corridor	No. of Containers by Preservative Type		
Project No. UST 03439	Matrix G X		
Sample ID / Description (Containers for each sample may be combined on one form)	Date Time		
03439-RW10 Dup	2/15/19 1547		
RW11	1540		
RW12	1550		
RW13	1555		
RW16	1515		
RW17	1510		
CK01	1645		
CK02	1630		
CK03	1615		
03439-CK04	2/13/19 1705		
Turn Around Time Required (Prior lab approval required for expedited TAT) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)	Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab		
Relinquished by Peter J. Wyle	Date Time 2/15/19 1010	Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown	OC Requirements (Steadily) Date Time 2/15/19 1010
Relinquished by	Date Time		
Relinquished by	Date Time		
Relinquished by Matt D.P.	Date Time 2/15/19 1420	Laboratory received by J. Hite	Date Time 2-15-19 1420
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		LAF USE ONLY Received on ice (Circle) <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	Recipient Temp. 2.1 °C

SHEALY ENVIRONMENTAL SERVICES, INC.

Number 84381

SHEALY ENVIRONMENTAL SERVICES, INC.
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.shealylab.com

Chain of Custody Record



Client: BLE Address: 6004 Ponders Court City: Greenville State: SC Zip: 29615	Report to Contact: Trevor Benton Sampler's Signature: <i>[Signature]</i> Printed Name: Peter J. Wyle	Telephone No. / E-mail: 803-346-8298 / t.benton@shealylab.com Quota No.: Page 4 of 4	Analysis (Attach 15¢ if more space is needed): UB16001 LID: UB16001 Remains / Location:
Project Name: Hwy 11 Grocery Project No.: UST 03439 Sample ID / Description: (Neighbors for each sample may be excluded on one line.) Date: 2/13/19 Time: 12:45 Location: Lab	Matrix: G No. of Containers by Preservative Type: H2O: 5 H2SO4: 5 HNO3: 2	Possible Hazard Identification: <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Self-Heating <input type="checkbox"/> Poison <input type="checkbox"/> Unknown	CC Requirements (Specify): Date: 2/15/19 Time: 10:10 Date: 2-15-19 Time: 14:20
Turn Around Time Required (Prior lab approval required for expedited (MT), Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> (Specify): Relinquished by: Peter J. Wyle Date: 2/15/19 Time: 10:10	Sample Disposal: <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab Date: 2/15/19 Time: 10:10	1. Received by: Matthew D.P. Date: 2-15-19 Time: 10:10	2. Received by: Date: Time:
3. Relinquished by: Date: Time:	3. Received by: Date: Time:	4. Laboratory received by: J. Hahn Date: 2-15-19 Time: 14:20	4. Laboratory received by: Date: Time:
4. Relinquished by: Matthew D.P. Date: 2/15/19 Time: 14:20 Note: All samples are retained for four weeks from receipt unless other arrangements are made.	LAD USE ONLY Received on Ice (Circle) Yes No Ice Pack	Receipt Temp: 21 °C	Date: 2-15-19 Time: 14:20

Document Number: F-AD-100 Effective Date: 06-01-2014

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Samples(s); PINK-Field/Cient Copy

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: MB0013C-14

Page 1 of 1
Effective Date: 8/22/08

Sample Receipt Checklist (SRC)

Client: BLE Cooler Inspected by/date: LKH 2-16-19 Lot #: UB16001

Means of receipt: <input checked="" type="checkbox"/> SESI <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: <u>NA</u> Chlorine Strip ID: <u>NA</u> Tested by: <u>NA</u>	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt: <u>2.1 / 2.1 °C</u> %Solid Snap-Cup ID: <u>NA</u>	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>5</u> IR Gun Correction Factor: <u>0</u> °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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).
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	14. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (1/4" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₃ /TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote #
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # <u>NA</u> .	
Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below.	
Sample(s) <u>NA</u> were received with bubbles >6 mm in diameter.	
Samples(s) <u>NA</u> were received with TRC > 0.5 mg/L (If #19 is <i>no</i>) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: <u>NA</u> .	
SR barcode labels applied by: <u>LKH</u> Date: <u>2-16-19</u>	

Comments:

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?	✓		
2	Is UST Owner/Operator name, address, & phone number provided?	✓		
3	Is name, address, & phone number of current property owner provided?	✓		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	✓		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			✓
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	✓		
7	Has the facility history been summarized?	✓		
8	Has the regional geology and hydrogeology been described?			✓
9	Are the receptor survey results provided as required?			✓
10	Has current use of the site and adjacent land been described?	✓		
11	Has the site-specific geology and hydrogeology been described?			✓
12	Has the primary soil type been described?			✓
13	Have field screening results been described?			✓
14	Has a description of the soil sample collection and preservation been detailed?			✓
15	Has the field screening methodology and procedure been detailed?			✓
16	Has the monitoring well installation and development dates been provided?			✓
17	Has the method of well development been detailed?			✓
18	Has justification been provided for the locations of the monitoring wells?			✓
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			✓
20	Has the groundwater sampling methodology been detailed?	✓		
21	Have the groundwater sampling dates and groundwater measurements been provided?	✓		
22	Has the purging methodology been detailed?	✓		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	✓		
24	If free-product is present, has the thickness been provided?	✓		
25	Does the report include a brief discussion of the assessment done and the results?	✓		
26	Does the report include a brief discussion of the aquifer evaluation and results?			✓
27	Does the report include a brief discussion of the fate & transport models used?			✓

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



NOV 06 2019



STEVE SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: Site-Specific Work Plan (SSWP) Request for Groundwater Sampling
Hwy 11 Grocery, 13527 N Hwy 11, Salem, SC
UST Permit #03439
Release reported November 28, 2000
Monitoring Report received April 5, 2019
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Management 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 (RBSLs).

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, 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 (ACQAP), and in compliance with all applicable regulations. A copy of the UST QAPP is available at <https://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance>.

Groundwater samples should be collected from all monitoring wells associated with the above referenced release and all water supply wells, and surface waters within a 1,000 foot radius of the site and 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 regarding this site, please use the UST Permit number referenced above. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-0610, by fax at (803) 898-0673, or by e-mail at westbrcj@dhec.sc.gov.

Sincerely,



Conner Westbrook, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Bunnell-Lammons Engineering Inc., 6004 Ponders Ct, Greenville, SC 29615
Technical file

Document Receipt Information

Hard Copy

CD

Email

Date Received 12-27-2019
Permit Number 03439
Project Manager Connor Westbrook
Name of Contractor BLE Inc
UST Certification Number SSNP- GWS Event
Docket Number 95tech
Scanned _____



**BUNNELL
LAMMONS
ENGINEERING**

December 23, 2019

South Carolina Department of Health and Environmental Control
Underground Storage Tank Management Division
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Conner Westbrook, Hydrogeologist

Subject: **Site Specific Work Plan – Groundwater Sampling Event
Highway 11 Grocery
13527 North Highway 11
Salem, Oconee County, South Carolina
UST Permit #03439
BLE Project No. J19-10768-06**

Dear Mr. Westbrook:

On behalf of Mr. Steve Smith, Bunnell-Lammons Engineering, Inc. (BLE) submits herein the completed Site Specific Work Plan (SSWP) for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) SSWP request dated November 6, 2019 for the implementation of a comprehensive groundwater sampling event at the subject site.

Please do not hesitate to contact us if you have any questions concerning this submittal.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Senior Hydrogeologist
Registered, South Carolina No. 2395

cc: Mr. Steve Smith, 180 Shallow Ford Road, Salem, South Carolina 29676



**Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division**

To: Mr. Conner Westbrook (SCDHEC Project Manager)
 From: Mr. Trevor J. Benton, P.G. (Contractor Project Manager)
 Contractor: Bunnell-Lammons Engineering, Inc. UST Contractor Certification Number: UCC-0010

Facility Name: Highway 11 Grocery UST Permit #: 03439
 Facility Address: 13527 North Highway 11, Salem, South Carolina
 Responsible Party: Mr. Steve Smith Phone: _____
 RP Address: 180 Shallow Ford Road, Salem, South Carolina 29676
 Property Owner (if different): Jocassee Recreation Center, LLC
 Property Owner Address: P.O. Box 878, Pickens, South Carolina
 Current Use of Property: Closed gas station

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:

- | | | | |
|--|--|--------------------------------------|---|
| <input checked="" type="checkbox"/> BTEXNMDCA (8260B) | <input type="checkbox"/> Lead | <input type="checkbox"/> BOD | <input type="checkbox"/> Methane |
| <input checked="" type="checkbox"/> Oxygenates (8260B) | <input type="checkbox"/> 8 RCRA Metals | <input type="checkbox"/> Nitrate | <input type="checkbox"/> Ethanol |
| <input checked="" type="checkbox"/> EDB (8011) | <input type="checkbox"/> TPH | <input type="checkbox"/> Sulfate | <input type="checkbox"/> Dissolved Iron |
| <input type="checkbox"/> PAH (8270D) | <input type="checkbox"/> pH | <input type="checkbox"/> Other _____ | |

Drinking Water Supply Wells:

- BTEXNMDCA (524.2) Mercury (200.8 245.1 or 245.2) EDB (504.1)
 Oxygenates & Ethanol (8260B) RCRA Metals (200.8)

Soil:

- | | | | | |
|---------------------------------|--|--|--|-------------------------------------|
| <input type="checkbox"/> BTEXNM | <input type="checkbox"/> Lead | <input type="checkbox"/> RCRA Metals | <input type="checkbox"/> TPH-DRO (3550B/8015B) | <input type="checkbox"/> Grain Size |
| <input type="checkbox"/> PAH | <input type="checkbox"/> Oil & Grease (9071) | <input type="checkbox"/> TPH-GRO (5030B/8015B) | <input type="checkbox"/> TOC | |

Air:

- BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

_____ Soil	<u>1</u> Water Supply Wells	_____ Air	<u>3</u> Field Blank
<u>31</u> Monitoring Wells	<u>3</u> Surface Water	<u>3</u> Duplicate	<u>2</u> 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 #: 03439 Facility Name: Highway 11 Grocery

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 14 Field Work Completion: 45

Report Submittal: 75 # 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: 300 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/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

Sample existing monitoring wells MW-01 through MW-15, DMW-01, DMW-02, DMW-04, RW-01 through RW-13, water supply well WSW-01, and surface water locations CK-01, CK-02, and CK-03. As required by the SCDHEC, all monitoring wells will be purged prior to sampling. Purging will be conducted in accordance with BLE's Annual Contractor Quality Assurance Plan (ACQAP).

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: _____

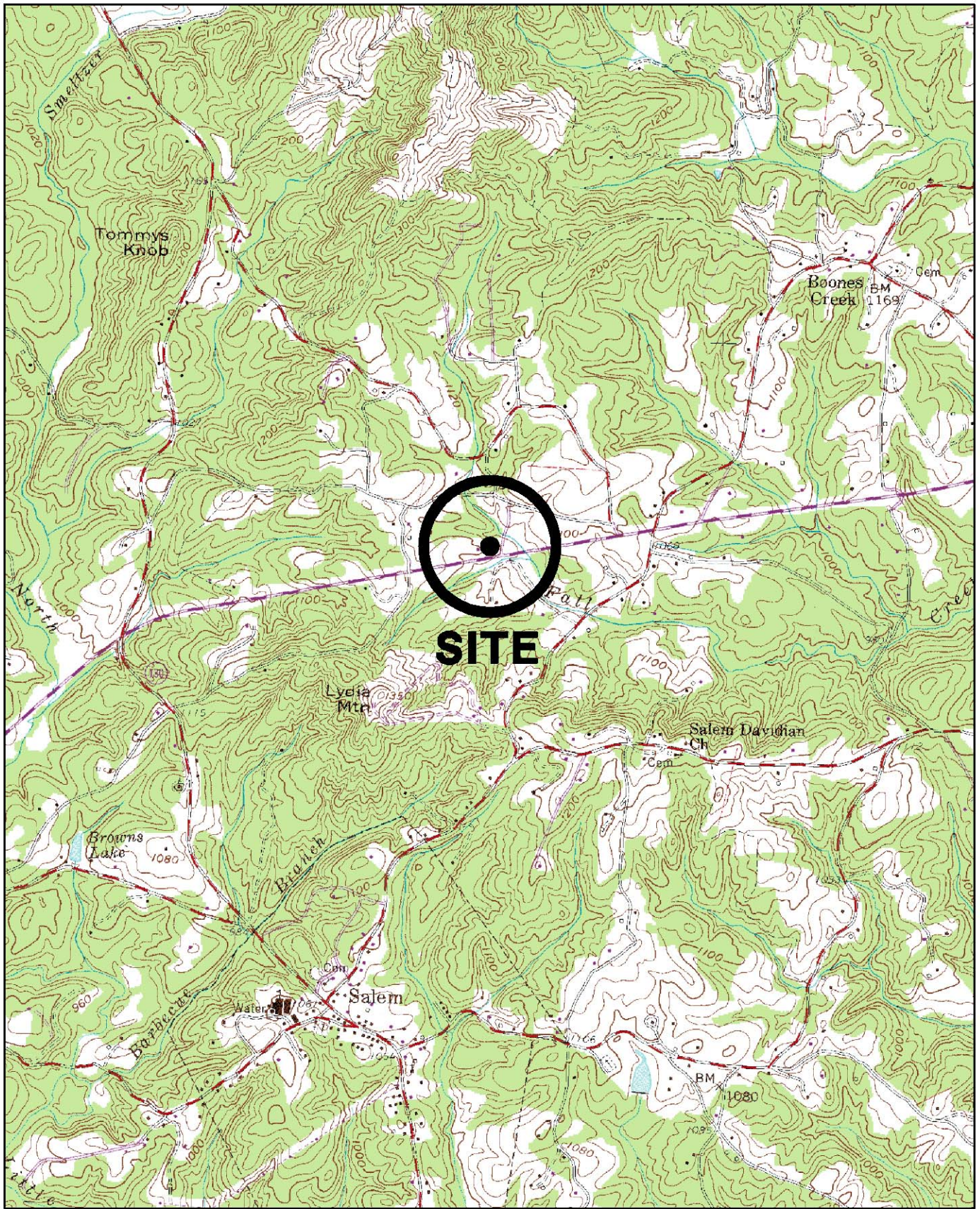
NO Other variations from ACQAP. Please describe below.

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	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

FIGURES



REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES,
SALEM, S.C. QUADRANGLE, PHOTOREVISED 1980.

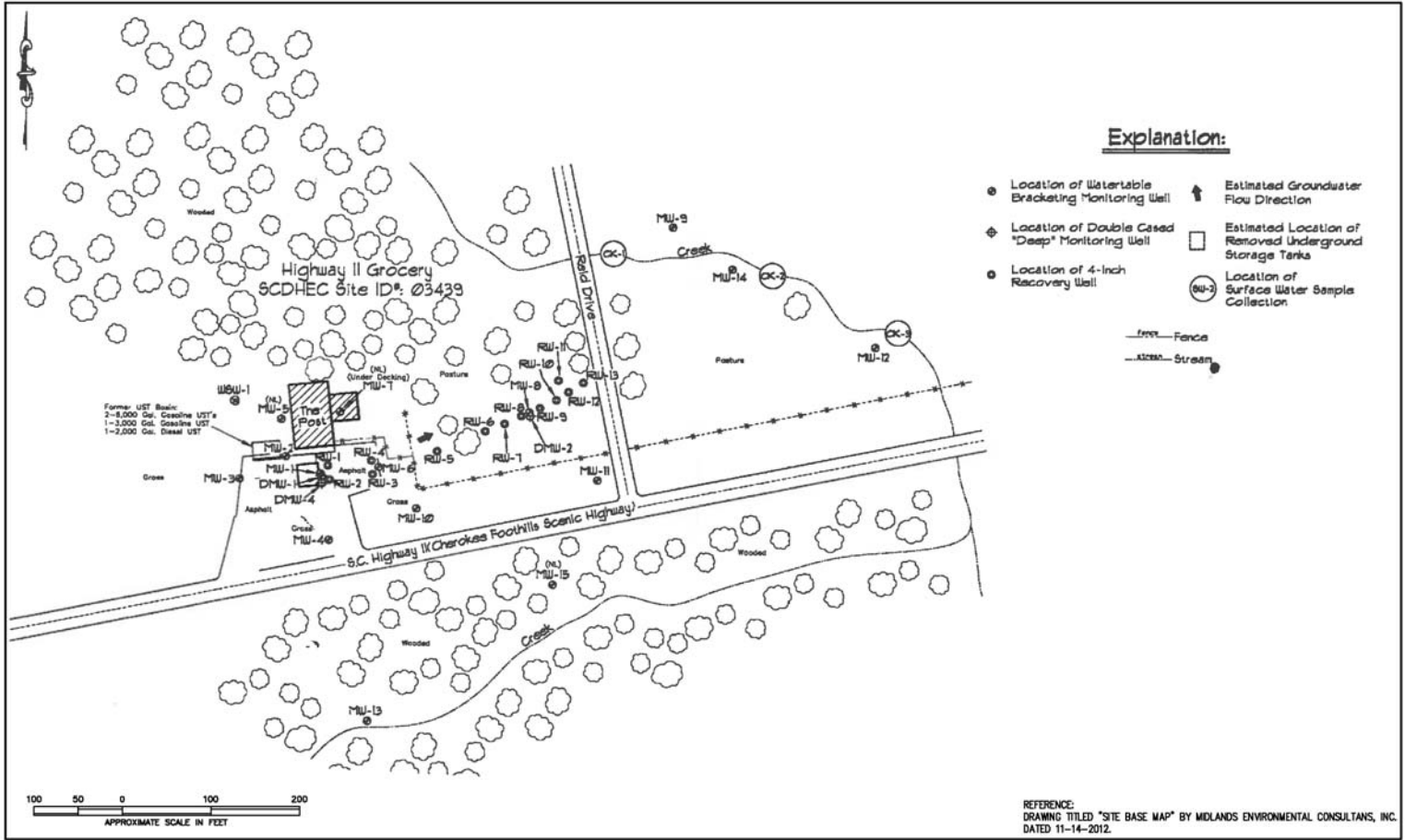
DRAWN: ACE	DATE: 12-23-19
CHECKED: TJB	CAD: FHWHY11GROCERY-06SLM
APPROVED:	JOB NO: J19-10769-06

BLE | **BUNNELL LAMMONS ENGINEERING**
 6004 Ponders Court, Greenville, SC 29615
 Phone: (854) 288-1255 Fax: (864) 288-4430

SITE LOCATION MAP
 FORMER HIGHWAY 11 GROCERY
 UST PERMIT #03439
 13527 HIGHWAY 11 NORTH
 SALEM, SOUTH CAROLINA

FIGURE

1



DRAWN BY:	ACE	DATE:	12-23-19
CHECKED BY:	TJB	FILE:	FHWY11GROCERY-08SP
APPROVED BY:		JOB NO.:	J19-10769-06

REVISIONS		
No.	DESCRIPTION	BY

BLE | BUNNELL
LAMMONS
ENGINEERING
5004 Panders Court, Greenville, SC 29615
Phone: (864) 269-1265 Fax: (864) 269-4430

SITE PLAN
FORMER HIGHWAY 11 GROCERY
UST PERMIT #03439
13527 HIGHWAY 11 NORTH
SALEM, SOUTH CAROLINA

FIGURE
2

ASSESSMENT COMPONENT INVOICE



**ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA**

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
June 15, 2017

Facility Name: Highway 11 Grocery

UST Permit #: 03439 **Cost Agreement #:** _____

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. Plan Preparation				
A1. Site-specific Work Plan	1	each	\$150.00	\$150.00
B1. Tax Map		each	\$70.00	\$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	\$250.00	\$0.00
2. A1. Receptor Survey *				
		each	\$551.00	\$0.00
3. Survey (500 ft x 500 ft)				
A1. Comprehensive Survey		each	\$1,040.00	\$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	\$1,300.00	\$0.00
2B. > 10 meters below grade		each	\$2,310.00	\$0.00
C1. Geophysical UST or Drum Survey		each	\$910.00	\$0.00
4. Mob/Demob				
A1. Equipment		each	\$1,020.00	\$0.00
B1. Personnel	3	each	\$423.00	\$1,269.00
C1. Adverse Terrain Vehicle		each	\$500.00	\$0.00
5. A1. Soil Borings (hand auger)*				
		foot	\$5.00	\$0.00
6. Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)*				
AA. Standard		per foot	\$15.00	\$0.00
C1. Fractured Rock		per foot	\$20.20	\$0.00
7. A1. Soil Leachability Model				
		each	\$60.00	\$0.00
8. Abandonment (per foot)*				
A1. 2" diameter or less		per foot	\$3.10	\$0.00
B1. Greater than 2" to 6" diameter		per foot	\$4.50	\$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	\$15.00	\$0.00
9. Well Installation (per foot)*				
A1. Water Table (hand augered)		per foot	\$10.60	\$0.00
B1. Water Table (drill rig)		per foot	\$38.00	\$0.00
CC. Telescoping		per foot	\$50.00	\$0.00
DD. Rock Drilling		per foot	\$58.00	\$0.00
E1. 2" Rock Coring		per foot	\$30.90	\$0.00
G1. Rock Multi-sampling ports/screens		per foot	\$33.40	\$0.00
HH. Recovery Well (4" diameter)		per foot	\$45.00	\$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	\$15.00	\$0.00
J1. Rotosonic (2" diameter)		per foot	\$44.00	\$0.00
K. Re-develop Existing Well		per foot	\$11.00	\$0.00
10. Groundwater Sample Collection / Gauge Depth to Water or Product *				
A1. Groundwater Purge	31	per well/receptor	\$60.00	\$1,860.00
B1. Air or Vapors		per receptor	\$12.00	\$0.00
C1. Water Supply	1	per well/receptor	\$22.00	\$22.00
D1. Groundwater No Purge or Duplicate	6	per well/receptor	\$28.00	\$168.00
E1. Gauge Well only		per well	\$7.00	\$0.00
F1. Sample Below Product		per well	\$12.00	\$0.00
G1. Passive Diffusion Bag		each	\$26.00	\$0.00
H1. Field Blank	3	each	\$24.60	\$73.80
I. Groundwater (low flow purge)		per well/receptor	\$91.00	\$0.00

11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	38	per sample	\$122.00		\$4,636.00
AA1. Lead, Filtered		per sample	\$13.80		\$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	\$153.60		\$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$36.40		\$0.00
D1. PAH's		per sample	\$60.60		\$0.00
E1. Lead		per sample	\$16.00		\$0.00
F1. EDB by EPA 8011	38	per sample	\$45.20		\$1,717.60
FF1. EDB by EPA Method 8011 Rush		per sample	\$68.20		\$0.00
G1. 8 RCRA Metals		per sample	\$63.40		\$0.00
H1. TPH (9070)		per sample	\$41.00		\$0.00
II. pH		per sample	\$5.20		\$0.00
J1. BOD		per sample	\$20.00		\$0.00
PP. Ethanol		per sample	\$14.80		\$0.00
11. Analyses-Drinking Water					
L. BTEXNM+1,2 DCA (524.2)	4	per sample	\$124.05		\$496.20
M. 7-OXYGENATES & ETHANOL (8260B)	4	per sample	\$91.75		\$367.00
N. EDB (504.1)	3	per sample	\$79.50		\$238.50
O. RCRA METALS (200.8)		per sample	\$100.00		\$0.00
11. Analyses-Soil					
Q1. BTEX + Naphth.		per sample	\$64.00		\$0.00
R1. PAH's		per sample	\$64.04		\$0.00
S1. 8 RCRA Metals		per sample	\$56.40		\$0.00
U1. TPH-DRO (3550C/8015C)		per sample	\$40.00		\$0.00
V1. TPH- GRO (5030B/8015C)		per sample	\$35.96		\$0.00
W1. Grain size/hydrometer		per sample	\$104.00		\$0.00
X1. Total Organic Carbon		per sample	\$30.60		\$0.00
11. Analyses-Air					
Y1. BTEX + Naphthalene		per sample	\$216.00		\$0.00
11. Analyses-Free Phase Product					
Z1. Hydrocarbon Fuel Identification		per sample	\$357.00		\$0.00
12. Aquifer Characterization					
A1. Pumping Test*		per hour	\$23.00		\$0.00
B1. Slug Test*		per test	\$191.00		\$0.00
C1. Fractured Rock		per test	\$100.00		\$0.00
13. A1. Free Product Recovery Rate Test*		each	\$38.00		\$0.00
14. Fate/Transport Modeling					
A1. Mathematical Model		each	\$100.00		\$0.00
B1. Computer Model		each	\$100.00		\$0.00
15. Risk Evaluation					
A. Tier I Risk Evaluation		each	\$300.00		\$0.00
B1. Tier II Risk Evaluation		each	\$100.00		\$0.00
16. A1. Subsequent Survey*		each	\$260.00		\$0.00
17. Disposal (gallons or tons)*					
AA. Wastewater	300	gallon	\$0.56		\$168.00
BB. Free Product		gallon	\$0.50		\$0.00
C1. Soil Treatment/Disposal		ton	\$60.00		\$0.00
D1. Drilling fluids		gallon	\$0.42		\$0.00
18. Miscellaneous (attach receipts)					
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
20. Tier I Assessment (Use DHEC 3665 form)		standard			\$0.00
21. IGWA (Use DHEC 3666 form)		standard			\$0.00
22. Corrective Action (Use DHEC 3667 form)		PPF Bid			\$0.00

23. Aggressive Fluid & Vapor Recovery (AFVR)					
A1. 8-hour Event*		each	\$1,375.00		\$0.00
AA. 24-hour Event*		each	\$3,825.00		\$0.00
A3. 48-hour Event*		each	\$6,265.00		\$0.00
A4. 96-hour Event*		each	\$12,567.50		\$0.00
C1. Off-gas Treatment 8 hour		per event	\$122.50		\$0.00
C2. Off-gas Treatment 24 hour		per event	\$241.50		\$0.00
C3. Off-gas Treatment 48 hour		per event	\$327.00		\$0.00
C4. Off-gas Treatment 96 hour		per event	\$780.00		\$0.00
D. Site Reconnaissance		each	\$203.25		\$0.00
E1. Additional Hook-ups		each	\$25.75		\$0.00
F1. Effluent Disposal		gallon	\$0.44		\$0.00
G. AFVR Mobilization/Demobilization		each	\$391.50		\$0.00
24. Granulated Activated Carbon (GAC) filter system installation & service:					
A1. New GAC System Installation*		each	\$1,900.00		\$0.00
BB. Refurbished GAC Sys. Install*		each	\$900.00		\$0.00
C1. Filter replacement/removal*		each	\$350.00		\$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	\$275.00		\$0.00
E1. GAC System housing*		each	\$250.00		\$0.00
F. In-line particulate filter		each	\$150.00		\$0.00
G1. Additional piping & fittings		foot	\$1.50		\$0.00
25. Well Repair					
A1. Additional Copies of the Report Delivered		each	\$50.00		\$0.00
B1. Repair 2x2 MW pad*		each	\$50.00		\$0.00
C1. Repair 4x4 MW pad*		each	\$88.00		\$0.00
D1. Repair well vault*		each	\$118.00		\$0.00
F1. Replace well cover bolts		each	\$2.60		\$0.00
G. Replace locking well cap & lock		each	\$15.00		\$0.00
H1. Replace/Repair stick-up*		each	\$134.00		\$0.00
II. Convert Flush-mount to Stick-up*		each	\$150.00		\$0.00
J1. Convert Stick-up to Flush-mount*		each	\$130.00		\$0.00
K1. Replace missing/illegible well ID plate		each	\$12.00		\$0.00
Report Prep & Project Management	12%	percent	\$11,166.10		\$1,339.93
TOTAL					\$12,506.03

DHEC 2495 6-2017 *The appropriate mobilization cost can be added to complete these tasks, as necessary



STEVE SMITH
180 SHALLOW FORD RD
SALEM SC 29676

FEB 04 2020

Re: **Groundwater Sampling Notice to Proceed**
Hwy 11 Grocery, 13527 N Hwy 11, Salem, SC 29676-9801
UST Permit # 03439; CA # 61150
Release Reported November 28, 2000
Site-Specific Work Plan and cost proposal received December 27, 2019
Oconee County

Dear Mr. Smith:

The Underground Storage Tank (UST) Management 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 Bunnell-Lammons Engineering, Inc. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), Bunnell-Lammons Engineering, Inc., approved SSWP and Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at <http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentCleanup/QualityAssurance/>

The groundwater sampling event should begin immediately upon receipt of this letter. Cost agreement # 61150 has been approved for the amount shown on the enclosed cost agreement form. Please note the following changes to the cost agreement and SSWP:

- Item 11 A2 - 1 8260B analysis has been added to the cost agreement. This is for the groundwater trip blank.

The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.

The Monitoring report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the Division within sixty (60) days of the date of this correspondence. The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

Bunnell-Lammons Engineering, Inc., can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. 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 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 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 and DHEC-certified site rehabilitation contractor as required by R.61-98.

The 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 UST Permit #03439. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 898-0610, fax me at (803) 898-0673, or e-mail me at westbrcj@dhec.sc.gov.

Sincerely,



Conner Westbrook, Hydrogeologist I
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement (ACA)

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct, Greenville, SC 29615 (w/enc.)
Technical file (with enc.)

Approved Cost Agreement

61150

Facility: 03439 HWY 11 GROCERY

WESTBRCJ

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
01 PLAN		A1 SITE SPECIFIC WORK PLAN	1.0000	\$150.000	150.00
04 MOB/DEMOB		B1 PERSONNEL	3.0000	\$423.000	1,269.00
10 SAMPLE COLLECTION		A1 GROUNDWATER (PURGE)	31.0000	\$60.000	1,860.00
		C1 WATER SUPPLY	1.0000	\$22.000	22.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	6.0000	\$28.000	168.00
		H1 FIELD BLANK	3.0000	\$24.600	73.80
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	39.0000	\$122.000	4,758.00
		F1 EDB BY 8011	38.0000	\$45.200	1,717.60
	WATER DRINKING WATER	L BTEXNM+1,2 DCA (524.2)	4.0000	\$124.050	496.20
		M 7-OXYGENATES & ETHANOL (8260B)	4.0000	\$91.750	367.00
		N EDB (504.1)	3.0000	\$79.500	238.50
17 DISPOSAL		AA WASTEWATER	300.0000	\$0.560	168.00
19 RPT/PROJECT MNGT & COORDINATIO		FRT REPORT PREPARATION	0.1200	\$11,288.100	1,354.57
				Total Amount	12,642.67

Document Receipt Information

Hard Copy

CD

Email

Date Received 5-12-20

Permit Number 03439

Project Manager Conner Westbrook

Name of Contractor BLE

UST Certification Number _____

Docket Number 974ech

Scanned _____

GWS - March

REPORT OF COMPREHENSIVE GROUNDWATER SAMPLING EVENT – MARCH 2020

FORMER HIGHWAY 11 GROCERY
13527 NORTH HIGHWAY 11
SALEM, OCONEE COUNTY, SOUTH CAROLINA
UST PERMIT #03439; COST AGREEMENT #61150

Prepared For:
Mr. Steve Smith
180 Shallow Ford Road
Oconee, South Carolina 29676

SCDHEC Certified Contractor No. UCC-0010
BLE Project Number J19-10768-06

May 7, 2020



6004 Ponders Court | Greenville, SC 29615
☎ 864.288.1265 📠 864.288.4330 ✉ info@blecorp.com
BLECORP.COM



**BUNNELL
LAMMONS
ENGINEERING**

May 7, 2020

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
Underground Storage Tank Management Division
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Conner Westbrook, Hydrogeologist

Subject: **Report of Comprehensive Groundwater Sampling Event – March 2020
Former Highway 11 Grocery
13527 North Highway 11
Salem, Oconee County, South Carolina
UST Permit #03439; Cost Agreement #61150
BLE Project No. J19-10768-06**

Dear Mr. Westbrook:

On behalf of Mr. Steve Smith, Bunnell-Lammons Engineering, Inc. (BLE) has completed a comprehensive groundwater sampling event at the subject site. This scope of work was performed in response to a South Carolina Department of Health and Environmental Control (SCDHEC) directive dated February 4, 2020 and in accordance with BLE's Site Specific Work Plan (SSWP) submitted on December 23, 2019. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Peter J. Wylie
Environmental Scientist

Trevor J. Benton, P.G.
Senior Hydrogeologist
Registered, South Carolina No. 2395



cc: Mr. Steve Smith, 180 Shallow Ford Road, Salem, South Carolina 29676



1.0 BACKGROUND INFORMATION

The subject property is located at 13527 North Highway 11 in Salem, Oconee County, South Carolina (**Figure 1**). The site is currently utilized for residential and commercial office purposes; however, a convenience store/petroleum retail facility formerly operated on the property consisting of four underground storage tanks (USTs) (two 6,000-gallon gasoline USTs, one 3,000-gallon gasoline UST, and one 2,000-gallon diesel UST) and associated piping and fueling dispensers. According to the SCDHEC UST registry, the four USTs were abandoned by removal on September 15, 2009. A release at the subject site was reported and confirmed to the SCDHEC on November 28, 2000.

In response to the reported release, various environmental assessment activities have been conducted, including the installation of 18 groundwater monitoring wells and 17 groundwater recovery wells. The most recent environmental activities include the performance of a series of 96-hour aggressive fluid vapor recovery (AFVR) events to address the presence of free-product in several wells at the site.

In an effort to determine what risk the petroleum release may pose to human health and the environment, the SCDHEC requested an updated comprehensive groundwater sampling event be conducted at the facility. Details of the groundwater sampling event and our findings are provided herein.



2.0 GROUNDWATER SAMPLING

Date Sampled:	March 10-12, 2020	
Total Number of Wells Associated with Site:	35	MW-01 through MW-15, DMW-01, DMW-02, DMW-04, and RW-01 through RW-17.
Total Number of Wells Sampled:	28	MW-01 through MW-04, MW-06, MW-08 through MW-15, DMW-01, DMW-02, DMW-04, RW-01 through RW-04, RW-8 through RW-13, RW-16, and RW-17
Total Number of Wells NOT Sampled:	7	MW-05, MW-07 (Not Located); and RW-05, RW-06, RW-07, RW-14, and RW-15 (Free Product)
Water Supply Wells Sampled	1	WW-01
Surface Water Locations Sampled	5	CK-01 through CK-04, and Seep-1
QA / QC Samples	8	3 Duplicate Samples (MW-08 DUP, RW-10 DUP, and WW-01 DUP), 3 Field Blanks, and 2 Trip Blanks
Total Purge Volume (gallons)	394	Disposal Manifest Included in Appendix A
Analytical Laboratory	Shealy Environmental Services, Inc.	
Analytical Methods	EPA Method 8260B, EPA Method 8011, EPA Method 524.2, and EPA Method 504.1	
Free-Phase Petroleum Product	RW-05 (0.25-feet), RW-06 (0.31-feet), RW-07 (1.44-feet), RW-14 (2.45-feet) and RW-15 (0.04-feet) - **A sheen was present at Seep-1, which was collected from the ground surface in the area of the downgradient creek.	
Contaminants Exceeding Risk Based Screening Level Concentrations	Benzene, Toluene, Ethylbenzene, Xylenes, Methyl Tertiary Butyl Ether (MTBE), Naphthalene, 1,2-Dibromoethane (EDB), Tert-Amyl Methyl Ether (TAME), Tert-Amyl Alcohol (TAA), and Tert-Butyl Alcohol (TBA)	
Groundwater Level Measurements	See Table 1	
Groundwater Sampling Logs and Procedures	See Appendix B	



Laboratory Analytical Summary	See Table 2A and Table 2B
Laboratory Analytical Results	See Appendix C
Potentiometric Map	See Figure 2
CoC Map	See Figure 3

3.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the current laboratory analytical results, the horizontal extent of the contaminant plume does not appear to be defined in the downgradient direction. Additionally, free-phase petroleum product and/or chemicals of concern (CoC) at or above effective solubility limits for gasoline constituents, were identified in wells MW-06, MW-08, RW-02, RW-05, RW-06, RW-07, RW-08, RW-11, RW-14, RW-15, RW-16, and RW-17. CoC concentrations were also detected in all four surface water sample locations CK-01 through CK-04 and a sheen (free-product) was observed at the Seep-1 location and CoC concentrations were noted to exceed their respective RBSLs.

In an effort to fully delineate the groundwater contaminant plume, we recommend a groundwater screening assessment be conducted to the north and east of the current recovery well network, with particular focus on the area near the creek/seep. Upon receipt of the field screening data, we recommend the installation of shallow monitoring wells and/or recovery wells to supplement the existing network and to define the extent of the groundwater contaminant plume.

In conjunction with the groundwater screening assessment and monitoring well installations, we recommend a series of two 96-Hour AFVR events be conducted on the aforementioned monitoring and recovery wells in order to: 1) remove residual free-phase petroleum product from the area around the extraction points, 2) remove petroleum hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater from the subsurface. Additionally, we recommend placing petroleum absorbent pads in the area of the seep (Seep-1) to capture the free-product discharging to the ground surface.

At least 30 days following the final AFVR event, we recommend a comprehensive groundwater sampling event be performed to evaluate the effectiveness of the events, obtain current CoC concentration data, and to establish CoC concentration trends.



4.0 QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Mr. Steve Smith. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

TABLES

TABLE 1

MONITORING WELL AND GROUNDWATER ELEVATION DATA
Former Highway 11 Grocery
13527 North Highway 11
Salem, Oconee County, South Carolina
UST Permit #03439; Cost Agreement #58050
BLE Project No. J19-10768-06

Well ID	Date	Top of Casing Elevation	Free-Product Thickness	Groundwater Depth (btoc)	Groundwater Elevation	Well Depth	Screen Depth	Screen Elevation	
03439-MW01	5/8/2002	103.38	---	24.67	78.71	30.00	15.0 - 30.0	88.38 - 73.38	
	7/1/2003		---	23.28	80.10				
	7/30/2003		---	22.89	80.49				
	9/15/2003		---	23.78	79.60				
	2/13/2019		0.02	22.84	80.54				
	3/10/2020		---	22.15	81.23				
03439-MW02	5/8/2002	104.85	---	26.08	78.77	35.00	20.0 - 35.0	84.85 - 69.85	
	7/1/2003		---	24.08	80.77				
	7/30/2003		---	23.78	81.07				
	9/15/2003		---	24.73	80.12				
	2/13/2019		---	24.00	80.85				
	3/10/2020		---	23.27	81.58				
03439-MW03	5/8/2002	104.89	---	24.78	80.11	30.00	15.0 - 30.0	89.89 - 74.89	
	7/1/2003		---	22.51	82.38				
	7/30/2003		---	22.21	82.68				
	9/15/2003		---	23.23	81.66				
	2/13/2019		---	22.65	82.24				
	3/10/2020		---	21.83	83.06				
03439-MW04	5/8/2002	99.90	---	23.38	76.52	35.00	20.0 - 35.0	79.90 - 64.90	
	7/1/2003		---	22.10	77.80				
	7/30/2003		---	22.09	77.81				
	9/15/2003		---	22.90	77.00				
	2/13/2019		---	21.00	78.90				
	3/10/2020		---	20.25	79.65				
03439-MW05	5/8/2002	106.06	---	28.82	77.24	35.00	20.0 - 35.0	86.06 - 71.06	
	7/1/2003		---	26.82	79.24				
	7/30/2003		---	26.53	79.53				
	9/15/2003		---	27.40	78.66				
	2/13/2019		Well Not Located						
	3/10/2020		Well Not Located						
03439-MW06	5/8/2002	100.00	---	21.66	78.34	35.00	20.0 - 35.0	80.00 - 65.00	
	7/1/2003		---	19.77	80.23				
	7/30/2003		---	19.88	80.12				
	9/15/2003		---	20.63	79.37				
	2/13/2019		0.01	19.76	80.24				
	3/10/2020		---	19.09	80.91				
03439-MW07	5/8/2002	103.66	---	28.12	75.54	40.00	25.0 - 40.0	78.66 - 63.66	
	7/1/2003		---	26.55	77.11				
	7/30/2003		---	26.22	77.44				
	9/15/2003		---	26.83	76.83				
	2/13/2019		Well Not Accessible						
	3/10/2020		Well Not Accessible						
03439-MW08	5/8/2002	86.51	0.06	21.00	65.51	30.00	15.0 - 30.0	71.51 - 56.51	
	7/1/2003		0.60	20.96	65.55				
	7/30/2003		0.20	20.46	66.05				
	9/15/2003		0.15	21.17	65.34				
	2/13/2019		---	19.89	66.62				
	3/10/2020		---	19.33	67.18				
03439-MW09	5/8/2002	58.39	---	2.47	55.92	10.00	2.0 - 10.0	56.39 - 48.39	
	7/1/2003		---	2.30	56.09				
	7/30/2003		---	2.26	56.13				
	9/15/2003		---	2.42	55.97				
	2/13/2019		---	2.04	56.35				
	3/10/2020		---	2.28	56.11				
03439-MW10	5/8/2002	93.78	---	20.04	73.74	28.00	13.0 - 28.0	80.78 - 65.78	
	7/1/2003		---	16.20	77.58				
	7/30/2003		---	18.95	74.83				
	9/15/2003		---	16.53	77.25				
	2/13/2019		---	17.68	76.10				
	3/10/2020		---	17.06	76.72				

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UST Permit #03439; Cost Agreement #58050
BLE Project No. J19-10768-06

Well ID	Date	Top of Casing Elevation	Free-Product Thickness	Groundwater Depth (btoc)	Groundwater Elevation	Well Depth	Screen Depth	Screen Elevation
03439-MW11	5/8/2002	83.20	---	16.86	66.34	23.00	8.0 - 23.0	75.20 - 60.20
	7/1/2003		---	15.93	67.27			
	7/30/2003		---	15.92	67.28			
	9/15/2003		---	16.21	66.99			
	2/13/2019		---	14.69	68.51			
	3/10/2020		---	14.25	68.95			
03439-MW12	5/8/2002	58.69	---	3.12	55.57	12.00	2.0 - 12.0	56.69 - 46.69
	7/1/2003		---	3.10	55.59			
	7/30/2003		---	3.02	55.67			
	9/15/2003		---	3.19	55.50			
	2/13/2019		---	2.35	56.34			
	3/10/2020		---	2.70	55.99			
03439-MW13	5/8/2002	77.91	---	6.52	71.39	12.00	2.0 - 12.0	75.91 - 65.91
	7/1/2003		---	6.44	71.47			
	7/30/2003		---	6.28	71.63			
	9/15/2003		---	6.62	71.29			
	2/13/2019		---	5.84	72.07			
	3/10/2020		---	6.14	71.77			
03439-MW14	5/8/2002	59.19	---	2.14	57.05	10.00	2.0 - 10.0	57.19 - 49.19
	7/1/2003		---	1.92	57.27			
	7/30/2003		---	1.77	57.42			
	9/15/2003		---	2.03	57.16			
	2/13/2019		---	1.26	57.93			
	3/10/2020		---	1.48	57.71			
03439-MW15	5/8/2002	71.52	---	10.61	60.91	9.00	4.0 - 9.0	67.52 - 62.52
	7/1/2003		---	10.83	60.69			
	7/30/2003		---	10.67	60.85			
	9/15/2003		---	11.02	60.50			
	2/13/2019		---	10.45	61.07			
	3/10/2020		---	9.85	61.67			
03439-DMW01	5/8/2002	103.27	---	24.68	78.59	45.00	40.0 - 45.0	63.27 - 58.27
	7/1/2003		---	22.97	80.30			
	7/30/2003		---	22.72	80.55			
	9/15/2003		---	23.61	79.66			
	10/2/2003		---	24.11	79.16			
	10/23/2003		---	24.50	78.77			
	12/18/2003		---	24.00	79.27			
	3/31/2004		---	24.60	78.67			
	2/14/2008		---	26.18	77.09			
	4/27/2010		---	24.12	79.15			
	12/13/2010		---	26.45	76.82			
	5/14/2013		---	23.98	79.29			
	10/2/2017		---	25.87	77.40			
	2/13/2019		---	22.80	80.47			
3/10/2020	---	21.98	81.29					
03439-DMW02	5/8/2002	86.21	---	17.22	68.99	75.00	70.0 - 75.0	16.21 - 11.21
	7/1/2003		---	16.44	69.77			
	7/30/2003		---	16.49	69.72			
	9/15/2003		---	15.75	70.46			
	10/2/2003		---	17.11	69.10			
	10/23/2003		---	17.63	68.58			
	12/18/2003		---	16.80	69.41			
	3/31/2004		---	17.31	68.90			
	2/14/2008		---	20.86	65.35			
	4/27/2010		---	24.20	62.01			
	12/13/2010		---	17.85	68.36			
	5/14/2013		---	16.31	69.90			
	10/2/2017		---	16.81	69.40			
	2/13/2019		---	15.56	70.65			
3/10/2020	---	15.55	70.66					

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13527 North Highway 11
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BLE Project No. J19-10768-06

Well ID	Date	Top of Casing Elevation	Free-Product Thickness	Groundwater Depth (btoc)	Groundwater Elevation	Well Depth	Screen Depth	Screen Elevation
03439-DMW04	5/8/2002	103.22	---	25.08	78.14	60.00	54.7 - 59.7	48.52 - 43.52
	7/1/2003		---	23.32	79.90			
	7/30/2003		---	23.18	80.04			
	9/15/2003		---	23.88	79.34			
	10/2/2003		---	24.39	78.83			
	10/23/2003		---	24.95	78.27			
	12/18/2003		---	24.45	78.77			
	3/31/2004		---	24.95	78.27			
	2/14/2008		---	26.44	76.78			
	4/27/2010		---	24.41	78.81			
	12/13/2010		---	26.90	76.32			
	5/14/2013		---	24.30	78.92			
	10/2/2017		---	26.45	76.77			
	2/13/2019		---	23.12	80.10			
3/10/2020	---	22.40	80.82					
03439-RW01	12/13/2010	103.29	---	26.65	76.64	30.00	10.0 - 30.0	93.29 - 73.29
	5/14/2013		0.04	NA	NA			
	10/2/2017		---	25.98	77.31			
	2/13/2019		---	22.99	80.30			
	3/10/2020		---	22.26	81.03			
03439-RW02	12/13/2010	102.85	0.02	NA	NA	30.00	9.7 - 29.7	93.15 - 73.15
	5/14/2013		0.30	NA	NA			
	10/2/2017*		0.61	25.21	77.64			
	2/13/2019*		0.03	22.27	80.58			
	3/10/2020		---	21.51	81.34			
03439-RW03	12/13/2010	100.25	---	23.68	76.57	30.00	10.0 - 30.0	90.25 - 70.25
	5/14/2013		---	21.11	79.14			
	10/2/2017		Well Dry at Time of Sampling Event					
	2/13/2019		---	20.13	80.12			
	3/10/2020		---	19.34	80.91			
03439-RW04	12/13/2010	101.00	---	24.34	76.66	30.00	9.7 - 29.7	91.30 - 71.30
	5/14/2013		---	10.85	90.15			
	10/2/2017		---	23.69	77.31			
	2/13/2019		0.01	20.71	80.29			
	3/10/2020		---	19.99	81.01			
03439-RW05	5/14/2013	94.97	1.39	NA	NA	30.00	10.0 - 30.0	84.97 - 64.97
	10/2/2017*		0.38	24.43	70.54			
	2/13/2019*		0.20	22.03	72.94			
	3/10/2020		0.25	21.50	73.47			
03439-RW06	5/14/2013	88.05	3.24	NA	NA	26.50	6.5 - 26.5	81.55 - 61.55
	10/2/2017*		3.74	19.47	68.58			
	2/13/2019*		1.09	16.57	71.48			
	3/10/2020		0.31	16.19	71.86			
03439-RW07	5/14/2013	88.06	4.99	NA	NA	30.00	10.0 - 30.0	78.06 - 58.06
	10/2/2017*		0.83	20.67	67.39			
	2/13/2019*		1.30	18.76	69.30			
	3/10/2020		1.44	19.23	68.83			
03439-RW08	5/14/2013	87.06	---	18.42	68.64	28.50	8.2 - 28.2	78.86 - 58.86
	10/2/2017		---	19.61	67.45			
	2/13/2019		---	18.56	68.50			
	3/10/2020		---	18.39	68.67			
03439-RW09	5/14/2013	86.18	0.60	NA	NA	30.00	10.0 - 30.0	76.18 - 56.18
	10/2/2017*		0.04	21.39	64.79			
	2/13/2019		---	19.60	66.58			
	3/10/2020		---	19.11	67.07			
03439-RW10	5/14/2013	84.49	---	19.93	64.56	30.00	10.0 - 30.0	74.49 - 54.49
	10/2/2017		---	21.03	63.46			
	2/13/2019		---	18.35	66.14			
	3/10/2020		---	18.18	66.31			

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BLE Project No. J19-10768-06

Well ID	Date	Top of Casing Elevation	Free-Product Thickness	Groundwater Depth (btoc)	Groundwater Elevation	Well Depth	Screen Depth	Screen Elevation
03439-RW11	5/14/2013	81.06	---	15.48	65.58	27.00	6.7 - 26.7	74.36 - 54.36
	10/2/2017*		0.04	17.21	63.85			
	2/13/2019		---	14.76	66.30			
	3/10/2020		---	14.21	66.85			
03439-RW12	5/14/2013	82.22	---	18.43	63.79	30.00	10.0 - 30.0	72.22 - 52.22
	10/2/2017		---	19.49	62.73			
	2/13/2019		---	17.20	65.02			
	3/10/2020		---	16.53	65.69			
03439-RW13	5/14/2013	80.72	---	17.41	63.31	29.00	9.0 - 29.0	71.72 - 51.72
	10/2/2017		---	18.28	62.44			
	2/13/2019		---	16.02	64.70			
	3/10/2020		---	15.33	65.39			
03439-RW14	10/2/2017*	98.66	0.42	25.13	73.53	30.00	10.0 - 30.0	88.66 - 68.66
	2/13/2019*		2.36	22.44	76.22			
	3/10/2020		2.45	23.48	75.18			
03439-RW15	10/2/2017*	95.62	1.09	23.79	71.83	30.00	10.0 - 30.0	85.62 - 65.62
	2/13/2019*		0.09	21.15	74.47			
	3/10/2020		0.04	20.60	75.02			
03439-RW16	10/2/2017*	92.26	1.11	22.26	70.00	30.00	10.0 - 30.0	82.26 - 62.26
	2/13/2019		---	19.65	72.61			
	3/10/2020							
03439-RW17	10/2/2017	88.47	Not Located			30.00	10.0 - 30.0	78.47 - 58.47
	2/13/2019		---	16.09	72.38			
	3/10/2020		---	15.30	73.17			

NOTES:

Monitoring well construction and groundwater elevation data were obtained from historical reports obtained from an SCDHEC FOI search. BLE is not responsible for the accuracy of this data. Measurements are in feet; elevations are relative to an arbitrary site datum.

btoc = below top of casing

NA = Not Available / Unknown

* - Groundwater elevation corrected for the presence of free-product using the specific gravity of 0.70 g/ml

TABLE 2A

Historical Laboratory Analytical Results
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J19-10768-06

Well	Date Sampled	Free-Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL			5	1,000	700	10,000	40	25	0.05	5
03439-MW01	5/7/2002	0.04	226,000	301,000	280,000	278,000	5,110,000	2,000	NA	NA
	7/1/2003	0.24	10,000	34,000	4,400	23,000	34,000	1,200	NA	NA
	7/30/2003	0.08	7,600	28,000	6,300	32,000	25,000	2,500	NA	NA
	12/18/2003	---	2,200	6,200	910	5,800	16,000	2,500	NA	NA
	3/31/2004	---	3,400	9,300	1,100	6,200	20,000	1,200	NA	NA
	2/14/2008	0.03	Not Sampled Due to the Presence of Free Product							
	4/27/2010	0.55	Not Sampled Due to the Presence of Free Product							
	12/13/2010	---	4,530	8,750	1,150	6,430	30,400	529	NT	<250
	5/14/2013	0.05	Not Sampled Due to the Presence of Free Product							
	10/2/2017	---	9,020	25,600	2,030	11,200	60,700	382 J	<0.020	<120
2/13/2019	0.02	Not Sampled Due to the Presence of Free Product								
3/10/2020	---	840	6,200	1,100	6,300	980	340	<0.021	<20	
03439-MW01 DUP	3/10/2020	---	890	6,700	1,200	6,600	1,000	320	<0.020	<20
03439-MW02	5/7/2002	---	13.0	8.0	1.0	5.0	5.0	5.0	NA	NA
	7/1/2003	---	4.7	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	5.8	5.0	1.0	5.0	1.0	5.0	NA	NA
	12/18/2003	---	2.2	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	2.6	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	---	4.0	<1	<1	1.0	<1	<2	NT	NT
	4/27/2010	---	4.0	<5	<5	3.0	<5	<5	<0.02	<5
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NT	<5
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	10/2/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.019	<0.24
	2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40
3/10/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
03439-MW03	5/7/2002	---	1.0	1.0	1.0	1.0	5.0	5.0	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	---	<1	<1	<1	1.0	<1	<2	NT	NT
	4/27/2010	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NT	<5
	5/14/2013	NA	Not Located							
	10/2/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.019	<0.24
	2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40
3/10/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
03439-MW04	5/7/2002	---	1,500	5,320	620	3,360	810	500	NA	NA
	7/1/2003	---	4,800	14,000	2,300	12,000	2,600	500	NA	NA
	7/30/2003	---	4,000	14,000	2,700	13,000	2,100	500	NA	NA
	12/18/2003	---	1,100	2,400	230	1,900	1,200	250	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	---	<1	<1	<1	<3	1.0	<2	NA	NA
	4/27/2010	---	532	906	179	895	381	31	<0.02	<5
	12/13/2010	---	520	224	55	482	763	18	NA	<25
	5/14/2013	---	140	480	250	1,000	31	39	<0.02	NA
	10/3/2017	---	63.5	177	260	1,420	6.2	73	<0.019	<0.96
	2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40
3/10/2020	---	4.6	5.7	11	58	0.62 J	4.0	<0.020	<0.40	
03439-MW05	5/7/2002	---	1.0	1.0	1.0	1.0	5.0	5.0	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	4.2	17.0	3.6	18	2.2	5.0	NA	NA
	12/18/2003	---	2.3	5.0	1.0	3.2	1.3	5.0	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA
	4/27/2010	NA	Not Located							
	12/13/2010	NA	Not Located							
	5/14/2013	NA	Not Located							
	10/2/2017	NA	Not Located							
2/13/2019	NA	Not Located								
3/10/2020	NA	Not Located								

TABLE 2A

Historical Laboratory Analytical Results
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J19-10768-06

Well	Date Sampled	Free-Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	
SC DHEC RBSL			5	1,000	700	10,000	40	25	0.05	5	
03439-MW06	5/7/2002	---	1,780	4,950	490	2,880	6,350	500	NA	NA	
	7/1/2003	---	2,200	6,600	820	4,400	12,000	2,500	NA	NA	
	7/30/2003	---	4,200	13,000	1,600	8,900	21,000	400	NA	NA	
	12/18/2003	---	5,100	14,000	1,700	11,000	19,000	2,500	NA	NA	
	3/31/2004	---	280	840	100	2,200	900	250	NA	NA	
	2/14/2008	---	162	750	26	575	11	12	NA	NA	
	4/27/2010	---	5,570	19,900	2,260	12,300	35,300	463	<0.02	<5	
	12/13/2010	---	1,300	6,340	360	7,910	2,500	<250	NT	<250	
	5/14/2013	---	7,500	27,000	1,900	13,000	22,000	380	<0.02	210	
	10/2/2017	NA	Not Located								
	2/13/2019	0.01	Not Sampled Due to the Presence of Free Product								
3/11/2020	---	3,500	23,000	2,300	14,000	1,400	580	0.029	<80		
03439-MW06 DUP	3/11/2020	---	3,400	22,000	2,300	14,000	1,300	540	<0.020	<80	
03439-MW07	5/7/2002	---	34	20	1.0	8.0	7	5.0	NA	NA	
	7/1/2003	---	37	36	1.7	20	9	5.0	NA	NA	
	7/30/2003	---	18	18	1.0	9.7	1	5.0	NA	NA	
	12/18/2003	---	41	20	1.0	3.0	1	5.0	NA	NA	
	3/31/2004	---	30	34	1.0	16	1	5.0	NA	NA	
	2/14/2008	---	59	60	3	41	2	<2	NA	NA	
	4/27/2010	NA	Not Accessible								
	12/13/2010	NA	Not Located								
	5/14/2013	NA	Not Located								
	10/2/2017	NA	Not Located								
	2/13/2019	NA	Not Accessible								
3/10/2020	NA	Not Accessible									
03439-MW08	5/7/2002	0.06	226,000	301,000	280,000	278,000	5,100,000	2,000	NA	NA	
	7/1/2003	0.60	12,000	51,000	7,800	40,000	11,000	2,500	NA	NA	
	7/30/2003	0.20	12,000	40,000	3,600	18,000	15,000	660	NA	NA	
	12/18/2003	---	10,000	27,000	3,300	18,000	14,000	2,500	NA	NA	
	3/31/2004	0.10	Not Sampled Due to the Presence of Free Product								
	2/14/2008	1.93	Not Sampled Due to the Presence of Free Product								
	4/27/2010	0.45	Not Sampled Due to the Presence of Free Product								
	12/13/2010	1.00	Not Sampled Due to the Presence of Free Product								
	5/14/2013	0.27	Not Sampled Due to the Presence of Free Product								
	10/2/2017	---	2,370	14,600	2,090	11,200	386	386	<0.019	<24.0	
	2/13/2019	---	2,000	12,000	2,100	13,000	490	410	<0.019	<20	
3/12/2020	---	2,100	14,000	2,100	12,000	250	420	<0.020	<80		
03439-MW09	5/7/2002	---	NA	NA	NA	NA	86.0	9.0	NA	NA	
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	540.0	6.5	NA	NA	
	12/18/2003	---	1.0	5.0	1.0	3.0	91.0	ND	NA	NA	
	3/31/2004	---	1.0	5.0	2.0	8.8	1.0	ND	NA	NA	
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA	
	4/27/2010	---	<5	<5	<5	<10	<5	<5	<0.02	<5	
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NT	<5	
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5	
	10/3/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.019	<0.24	
	2/14/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
	3/10/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.021	<0.40	
	03439-MW10	5/7/2002	---	115	185	68.0	328	86	9.0	NA	NA
7/1/2003		---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
7/30/2003		---	170	420	43.0	240	540	6.5	NA	NA	
12/18/2003		---	89	280	74.0	480	91	25	NA	NA	
3/31/2004		---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
2/14/2008		---	401	129	167	721	296	46	NA	NA	
4/27/2010		---	<5	<5	<5	<10	4	<5	<0.02	<5	
12/13/2010		---	50	8	5	52	23	<5	NA	<5	
5/14/2013		---	6	<5	<5	<10	<5	<5	<0.02	<5	
10/2/2017		NA	Not Located								
2/13/2019		---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
3/10/2020		---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	

TABLE 2A

Historical Laboratory Analytical Results
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J19-10768-06

Well	Date Sampled	Free-Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL			5	1,000	700	10,000	40	25	0.05	5
03439-MW11	5/7/2002	---	1.0	1.0	1.0	1.0	5.0	5.0	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	---	<1	2.0	1.0	7.0	2.0	1.0	NA	NA
	4/27/2010	---	<5	3	<5	4.0	<5	<5	<0.02	<5
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	10/3/2017	---	<0.25	0.73 J	1.1	7.0	<0.21	1.3	<0.019	<0.24
2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
3/11/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
03439-MW12	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	5,500	17,000	2,600	13,000	7,100	570	NA	NA
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA
	4/27/2010	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	10/3/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.019	<0.24
2/14/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
3/10/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
03439-MW13	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	NA	Not Located							
	4/27/2010	---	<5	<5	<5	<10	<5	<5	0.05	<5
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	10/2/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.020	<0.24
2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40	
3/10/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
03439-MW14	5/7/2002	---	3,780	13,800	27,000	14,700	7,010	500	NA	NA
	7/1/2003	---	3,500	10,000	1,900	10,000	5,300	500	NA	NA
	7/30/2003	---	3,100	9,700	1,800	9,300	4,300	500	NA	NA
	12/18/2003	---	3,300	11,000	2,000	11,000	4,100	500	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	2.0	5.0	NA	NA
	2/14/2008	---	3,640	14,500	2,700	14,300	5,500	439	NA	NA
	4/27/2010	---	1,770	6,420	1,560	8,850	2,020	432	<0.02	<5
	12/13/2010	---	1,410	4,840	1,490	8,450	1,500	359	NA	<250
	5/14/2013	---	1,100	4,700	1,200	7,100	830	350	<0.02	<250
	10/3/2017	---	371	706	551	3,220	88.1	179	<0.020	<2.4
2/14/2019	---	220	530	480	2,700	60	140	<0.020	<4.0	
3/10/2020	---	170	470	410	2,200	28	140	<0.020	<4.0	
03439-MW15	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	1	5	1	3	1	5	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	1	5	1	3	1	5	NA	NA
	3/31/2004	---	1	5	1	3	1	5	NA	NA
	2/14/2008	NA	Not Sampled							
	4/27/2010	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	12/13/2010	NA	Not Located							
	5/14/2013	NA	Not Located							
	10/2/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.020	<0.24
2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
3/11/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	

TABLE 2A

Historical Laboratory Analytical Results
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J19-10768-06

Well	Date Sampled	Free-Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL			5	1,000	700	10,000	40	25	0.05	5
03439-DMW01	5/7/2002	---	215	430	50	50	1,780	250	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	1.0	5.0	1.0	3.0	4.2	5.0	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	3.9	5.0	NA	NA
	2/14/2008	---	<1	<1	<1	<3	12	<2	NA	NA
	4/27/2010	---	<5	3.0	<5	5.0	<5	4.0	<0.02	<5
	12/13/2010	---	3.0	4.0	<5	3.0	104	<5	NA	<5
	5/14/2013	---	<5	<5	<5	<10	<1	<5	<0.02	<5
	10/3/2017	---	<0.25	<0.26	<0.30	<1.0	0.29 J	<0.24	<0.019	<0.24
2/14/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40	
3/10/2020	---	<0.40	1.3	<0.40	0.72 J	<0.40	<0.40	<0.020	<0.40	
03439-DMW02	5/7/2002	---	1.0	1.0	1.0	1.0	5.0	5.0	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	6.4	5.0	NA	NA
	7/30/2003	---	1.0	8.4	6.8	30	1.0	6.7	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA
	4/27/2010	---	<5	<5	<5	3.0	<5	<5	<0.02	<5
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	10/3/2017	---	<0.25	6.9	7.6	53.4	<0.21	3.0	<0.020	<0.24
2/14/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
3/11/2020	---	<0.40	4.1	0.85 J	4.7	<0.40	<0.40	<0.020	<0.40	
03439-DMW04	5/7/2002	---	1.0	1.0	1.0	1.0	5.0	5.0	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA
	4/27/2010	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	10/3/2017	---	<0.25	0.90 J	<0.30	<1.0	0.28 J	0.85 J	<0.011	<0.24
2/14/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40	
3/10/2020	---	3.4	50	10	59	<0.40	4.4	<0.020	<0.40	
03439-RW01	12/13/2010	---	3,550	13,500	1,190	6,220	24,500	874	NA	<125
	5/14/2013	0.04	Not Sampled Due to the Presence of Free Product							
	10/3/2017	---	5,340	31,400	3,430	21,700	7,920	700	<0.019	<60.0
	10/3/2017	---	2,440	9,230	1,060	6,200	10,200	274	<0.019	<24.0
	2/13/2019	---	3,800	24,000	2,800	21,000	3,800	710 J	<0.020	<80
3/11/2020	---	1,100	5,200	700	4,800	940	68 J	0.026	<40	
03439-RW02	12/13/2010	0.02	Not Sampled Due to the Presence of Free Product							
	5/14/2013	0.30	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.61	Not Sampled Due to the Presence of Free Product							
	2/13/2019	0.03	Not Sampled Due to the Presence of Free Product							
3/11/2020	---	8,500	36,000	2,800	15,000	12,000	510	0.066	<200	
03439-RW03	12/13/2010	---	4,860	20,800	3,240	17,500	10,200	1,290	NA	<250
	5/14/2013	---	4,900	17,000	1,400	8,200	7,400	280	<0.02	<500
	10/2/2017	NA	Well Dry at Time of Sampling Event							
	2/13/2019	---	55	180	11	380	120	25	<0.020	1.3 J
3/11/2020	---	480	2,500	100	1,900	220	81	<0.020	<20	
03439-RW04	12/13/2010	---	2,390	6,720	467	4,020	7,780	169	NA	<5
	5/14/2013	---	4,000	13,000	990	5,900	22,000	<1,000	<0.02	97
	10/3/2017	---	391	1,370	273	2,060	20.6	261	<0.020	<2.4
	2/13/2019	0.01	Not Sampled Due to the Presence of Free Product							
3/11/2020	---	1,200	7,600	900	5,400	860	250	<0.020	<40	
03439-RW05	5/14/2013	1.39	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.38	Not Sampled Due to the Presence of Free Product							
	2/13/2019	0.20	Not Sampled Due to the Presence of Free Product							
	3/10/2020	0.25	Not Sampled Due to the Presence of Free Product							
03439-RW06	5/14/2013	3.24	Not Sampled Due to the Presence of Free Product							
	10/2/2017	3.74	Not Sampled Due to the Presence of Free Product							
	2/13/2019	1.09	Not Sampled Due to the Presence of Free Product							
	3/10/2020	0.31	Not Sampled Due to the Presence of Free Product							

TABLE 2A

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 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J19-10768-06

Well	Date Sampled	Free-Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL			5	1,000	700	10,000	40	25	0.05	5
03439-RW07	5/14/2013	4.99	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.83	Not Sampled Due to the Presence of Free Product							
	2/13/2019	1.30	Not Sampled Due to the Presence of Free Product							
	3/10/2020	1.44	Not Sampled Due to the Presence of Free Product							
03439-RW08	5/14/2013	---	8,400	33,000	3,000	16,000	6,100	<2,500	0.06	<2,500
	10/3/2017	---	2,900	14,100	2,030	10,300	472	467	<0.019	<24.0
	2/13/2019	---	2,900	19,000	2,500	13,000	570 J	360 J	0.038	<80
	3/11/2020	---	3,100	20,000	2,800	14,000	320	480	0.020	<80
03439-RW09	5/14/2013	0.60	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.04	Not Sampled Due to the Presence of Free Product							
	2/13/2019	---	4.4 J	58	45	290	2.0 J	12	<0.020	<0.40
	3/11/2020	---	1,400	7,900	2,000	11,000	140	560	<0.020	<40
03439-RW10	5/14/2013	---	6,300	31,000	3,500	19,000	4,300	<2,500	<0.02	<2,500
	10/3/2017	---	2,650	10,900	2,150	11,200	480	401	<0.020	<24.0
	2/13/2019	---	3.6 J	2.5 J	<0.40	0.68 J	11	<0.40	<0.020	<0.40
	3/11/2020	---	1,400	6,600	1,400	7,900	210	330	<0.020	<40
03439-RW11	5/14/2013	---	6,400	29,000	3,000	17,000	3,700	<2,500	<0.02	<2,500
	10/2/2017	0.04	Not Sampled Due to the Presence of Free Product							
	2/13/2019	---	2,700	17,000	2,600	16,000	860	590	0.023	<40
	3/12/2020	---	2,400	15,000	2,500	16,000	570	720	<0.020	<80
03439-RW12	5/14/2013	---	6,800	26,000	3,200	17,000	6,100	570	<0.02	<1,000
	10/3/2017	---	818	5,810	1,960	10,800	118	447	<0.020	<12.0
	2/13/2019	---	110	420	95	640	46	21 J	<0.020	<2.0
	3/12/2020	---	790	3,800	890	5,000	140	180	<0.020	<20
03439-RW13	5/14/2013	---	2,800	5,100	990	5,300	4,100	230	<0.02	<250
	10/3/2017	---	52.6	355	230	1,480	5.1 J	128	<0.020	<2.4
	2/13/2019	---	0.63 J	<0.40	<0.40	0.81 J	11.0	<0.40	<0.020	<0.40
	3/11/2020	---	410	1,900	510	2,900	63	130	<0.020	<8.0
03439-RW14	10/2/2017	0.42	Not Sampled Due to the Presence of Free Product							
	2/13/2019	2.36	Not Sampled Due to the Presence of Free Product							
	3/10/2020	2.45	Not Sampled Due to the Presence of Free Product							
03439-RW15	10/2/2017	1.09	Not Sampled Due to the Presence of Free Product							
	2/13/2019	0.09	Not Sampled Due to the Presence of Free Product							
	3/10/2020	0.04	Not Sampled Due to the Presence of Free Product							
03439-RW16	10/2/2017	1.11	Not Sampled Due to the Presence of Free Product							
	2/13/2019	---	310 J	32,000	4,000	22,000	<80	620 J	<0.020	<80
	3/12/2020	---	2,300	35,000	4,000	21,000	<200	590	<0.020	<200
03439-RW17	10/2/2017	NA	Not Located / Not Accessible / Under Fallen Tree							
	2/13/2019	---	<0.40	5.0	14	92	<0.40	7.4	<0.020	<0.40
	3/12/2020	---	1,300	11,000	1,200	6,100	5.1	190	<0.020	31
03439-CK01	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	2.6	5.0	1.0	4.8	4.5	5.0	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	11	18	4.1	20	9.0	5.0	NA	NA
	3/31/2004	---	16	30	6.1	32	22	5.0	NA	NA
	2/14/2008	---	9.0	17	5.0	24	12	1.0	NA	NA
	4/27/2010	---	3.0	6.0	2.0	8.0	5.0	<5	<0.02	<5
	12/13/2010	---	4.0	6.0	2.0	9.0	5.0	<5	NA	<5
	5/14/2013	---	<5	9.0	2.0	13	5.0	<5	<0.02	<5
	10/2/2017	---	4.7	6.8	3.7	18.8	5.8	0.83 J	<0.019	<0.24
2/13/2019	---	0.98 J	2.1 J	1.2 J	6.0	1.1 J	<0.40	<0.020	<0.40	
3/12/2020	---	5.3	22	8.9	47	4.6	1.9	<0.020	<0.40	
03439-CK02	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	NA	Not Sampled							
	4/27/2010	---	13	36	6.0	32	17	<5	<0.02	<5
	12/13/2010	---	16	36	7.0	34	23	7.0	NA	<5
	5/14/2013	---	24	75	15	89	21	3.0	<0.02	<5
	10/2/2017	---	17.1	39.6	14.4	75.8	14.4	3.4	<0.019	<0.24
2/13/2019	---	4.4 J	16	5.6	30	3.0 J	1.3 J	<0.020	<0.40	
3/12/2020	---	4.3	13	5.7	29	3.0	1.4	<0.020	<0.40	

TABLE 2A

Historical Laboratory Analytical Results
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J19-10768-06

Well	Date Sampled	Free-Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL			5	1,000	700	10,000	40	25	0.05	5
03439-CK03	2/14/2008	---	21	54	10	62	<40	4.0	NA	NA
	4/27/2010	---	13	38	7.0	37	19	<5	<0.02	<5
	12/13/2010	---	18	39	8.0	42	28	4.0	NA	<5
	5/14/2013	---	12	36	7.0	40	12	<5	<0.02	<5
	10/2/2017	---	13	27.5	10.4	58.2	13	2.9	<0.019	<0.24
	2/13/2019	---	4.1 J	15	5.5	29	2.7 J	1.2 J	<0.020	<0.40
	3/12/2020	---	4.1	13	5.4	27	3.1	1.4	<0.020	<0.40
03439-CK04	2/13/2019	---	<0.40	0.52 J	<0.40	1.8 J	<0.40	<0.40	<0.020	<0.40
	3/12/2020	---	<0.40	0.65 J	0.47 J	2.4	0.66 J	<0.40	<0.020	<0.40
03439-Seep-1	3/12/2020	---	370	1,100	65	3,400	320	120	<0.019	<20
03439-WW01	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	5.0	5.0	NA	NA
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA
	4/27/2010	NA	Not Sampled							
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5
	5/14/2013	---	<1	<1	<1	<1	<1	<1	<0.02	<1
	10/2/2017	---	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.019	<0.25
	2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0038	<0.40
	3/9/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039	<0.40
03439-WW01 DUP	3/9/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039	<0.40
Field Blank 01	3/10/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40
Field Blank 02	3/11/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40
Field Blank 03	3/12/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40
WSW Field Blank	3/9/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039	<0.40
Trip Blank	3/12/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	NT	<0.40
WSW Trip Blank	3/9/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	NT	<0.40

Notes:

µg/L = micrograms/liter = approximate Parts Per Billion (ppb)

Historical analytical results obtained from historical reports obtained from SCDHEC FOI search. BLE is not responsible for the accuracy of this data.

Bold values indicate detections

Shaded cells indicate concentrations above RBSLs

RBSL = Risk Based Screening Level

NA = Not Available / Unknown

ND = Not Detected at the Method Detection Limit

NS = Not Sampled

NT = Not Tested

MTBE = Methyl tertiary butyl ether

EDB = 1,2-Dibromoethane

1,2-DCA = 1,2-Dichloroethane

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J19-10768-06

Well	Date Sampled	Free Product Thickness	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-Tert-Butyl Ether (ETBE) (µg/L)	Ethyl-Tert-Butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL			128	240	NE	1,400	150	10,000	47	NE
03439-MW01	5/7/2002	0.04	Not Sampled Due to the Presence of Free Product							
	7/1/2003	0.24	Not Sampled Due to the Presence of Free Product							
	7/30/2003	0.08	Not Sampled Due to the Presence of Free Product							
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NT
	2/14/2008	0.03	Not Sampled Due to the Presence of Free Product							
	4/27/2010	0.55	Not Sampled Due to the Presence of Free Product							
	12/13/2010	---	735	3,430	NA	1,600	449	NA	NA	NA
	5/14/2013	0.05	Not Sampled Due to the Presence of Free Product							
	10/2/2017	---	1,760 J	<25,000	<945	20,000 J	1,130	<65,500	<35.0	<25,000
2/13/2019	0.02	Not Sampled Due to the Presence of Free Product								
3/10/2020	---	97 J	<400	<100	310 J	35 J	<2,600	<20	<400	
03439-MW01 DUP	3/10/2020	---	98 J	<400	<100	330 J	40 J	<2,600	<20	<400
03439-MW02	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA
	10/2/2017	---	<0.10	<50.0	<1.9	<3.6	0.13 J	<131	<0.070	<50.0
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
3/10/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0	
03439-MW03	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA
	10/2/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
3/10/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0	
03439-MW04	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	14	355	NA	<100	22	NA	NA	NA
	12/13/2010	---	<50	342	NA	<500	25	NA	NA	NA
	5/14/2013	---	<50	<500	NA	<500	<50	NA	NA	NA
	10/3/2017	---	<0.40	<200	<7.6	<14.5	0.74 J	<524	<0.28	<200
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
3/10/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0	
03439-MW05	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	NA	Not Located							
	12/13/2010	NA	Not Located							
	5/14/2013	NA	Not Located							
	10/2/2017	NA	Not Located							
2/13/2019	NA	Not Located								
3/10/2020	NA	Not Located								

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J19-10768-06

Well	Date Sampled	Free Product Thickness	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-Tert-Butyl Ether (ETBE) (µg/L)	Ethyl-Tert-Butyl Alcohol (ETBA) (µg/L)	
SC DHEC RBSL			128	240	NE	1,400	150	10,000	47	NE	
03439-MW06	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	914	3,110	NA	<100	536	NA	NA	NA	
	12/13/2010	---	<500	<5,000	NA	<5,000	<250	NA	NA	NA	
	5/14/2013	---	910	2,300	NA	<20,000	470	NA	NA	NA	
	10/2/2017	NA	Not Located								
	2/13/2019	0.01	Not Sampled Due to the Presence of Free Product								
3/11/2020	---	200 J	<1,600	<400	120 J	<80	<10,000	<80	<1,600		
03439-MW06 DUP	3/11/2020	---	170 J	<1,600	<400	84 J	<80	<10,000	<80	<1,600	
03439-MW07	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	NA	Not Accessible								
	12/13/2010	NA	Not Located								
	5/14/2013	NA	Not Located								
	10/2/2017	NA	Not Located								
	2/13/2019	NA	Not Accessible								
3/10/2020	NA	Not Accessible									
03439-MW08	5/7/2002	0.06	Not Sampled Due to the Presence of Free Product								
	7/1/2003	0.60	Not Sampled Due to the Presence of Free Product								
	7/30/2003	0.20	Not Sampled Due to the Presence of Free Product								
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	0.10	Not Sampled Due to the Presence of Free Product								
	2/14/2008	1.93	Not Sampled Due to the Presence of Free Product								
	4/27/2010	0.45	Not Sampled Due to the Presence of Free Product								
	12/13/2010	1.00	Not Sampled Due to the Presence of Free Product								
	5/14/2013	0.27	Not Sampled Due to the Presence of Free Product								
	10/3/2017	---	<10.0	<5,000	<189	<362	60.4 J	<13,100	<7.0	<5,000	
	2/13/2019	---	92 J	830 J	<100	<400	51 J	<2,600	<20	<400	
3/12/2020	---	<84	<1,600	<400	<80	<80	<10,000	<80	<1,600		
03439-MW09	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA	
	10/3/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0	
	2/14/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
3/10/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0		
03439-MW10	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA	
	10/2/2017	NA	Not Located								
	2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
3/10/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0		

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J19-10768-06

Well	Date Sampled	Free Product Thickness	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-Tert-Butyl Ether (ETBE) (µg/L)	Ethyl-Tert-Butyl Alcohol (ETBA) (µg/L)	
SC DHEC RBSL			128	240	NE	1,400	150	10,000	47	NE	
03439-MW11	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA	
	10/3/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0	
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0		
3/11/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0		
03439-MW12	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA	
	10/3/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	NT	
2/14/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0		
3/10/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0		
03439-MW13	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA	
	10/2/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	NT	
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0		
3/10/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0		
03439-MW14	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	134	717	NA	<100	96	NA	NA	NA	
	12/13/2010	---	<500	<5,000	NA	<5,000	<250	NA	NA	NA	
	5/14/2013	---	55	420	NA	<5,000	35	NA	NA	NA	
	10/3/2017	---	<1.0	<500	<18.9	<36.2	9.8 J	<1,310	<0.70	<500	
2/14/2019	---	10 J	100 J	<20	<80	6.5 J	<520	<4.0	<80		
3/10/2020	---	<4.2	<80	<20	<4.0	<4.0	<520	<4.0	<80		
03439-MW15	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	NA	Not Sampled								
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	NA	Not Located								
	5/14/2013	NA	Not Located								
	10/2/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0	
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0		
3/11/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0		

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J19-10768-06

Well	Date Sampled	Free Product Thickness	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-Tert-Butyl Ether (ETBE) (µg/L)	Ethyl-Tert-Butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL			128	240	NE	1,400	150	10,000	47	NE
03439-DMW01	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA
	10/3/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0
2/14/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
3/10/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0	
03439-DMW02	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA
	10/3/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0
2/14/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
3/11/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0	
03439-DMW04	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA
	10/3/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0
2/14/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
3/10/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0	
03439-RW01	12/13/2010	---	586	3,850	NA	5,200	373	NA	NA	NA
	5/14/2013	0.04	Not Sampled Due to the Presence of Free Product							
	10/3/2017	---	551 J	<12,500	<472	<905	327	<32,800	<17.5	<12,500
	2/13/2019	---	470 J	<1,600	<400	<1,600	190 J	<10,000	<80	<1,600
	3/11/2020	---	140 J	<800	<200	140 J	53 J	<5,200	<40	<800
03439-RW02	12/13/2010	0.02	Not Sampled Due to the Presence of Free Product							
	5/14/2013	0.30	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.61	Not Sampled Due to the Presence of Free Product							
	2/13/2019	0.03	Not Sampled Due to the Presence of Free Product							
	3/11/2020	---	1,200 J	<4,000	<1,000	2,100 J	540	<26,000	<200	<4,000
03439-RW03	12/13/2010	---	454	<5,000	NA	<5,000	284	NA	NA	NA
	5/14/2013	---	420	870	NA	<10,000	260	NA	NA	NA
	10/2/2017	NA	Well Dry at Time of Sampling Event							
	2/13/2019	---	12.0	31.0	<2.0	22.0	6.4	<52	<0.40	<8.0
	3/11/2020	---	30 J	<400	<100	42 J	<20	<2,600	<20	<400
03439-RW04	12/13/2010	---	259	581	NA	764	203	NA	NA	NA
	5/14/2013	---	650	1,700	NA	1,400	370	NA	NA	NA
	10/3/2017	---	<1.0	<500	<18.9	<36.2	3.9 J	<1,310	<0.70	<500
	2/13/2019	0.01	Not Sampled Due to the Presence of Free Product							
	3/11/2020	---	110 J	<800	<200	160 J	54 J	<5,200	<40	<800
03439-RW05	5/14/2013	1.39	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.38	Not Sampled Due to the Presence of Free Product							
	2/13/2019	0.20	Not Sampled Due to the Presence of Free Product							
	3/10/2020	0.25	Not Sampled Due to the Presence of Free Product							
03439-RW06	5/14/2013	3.24	Not Sampled Due to the Presence of Free Product							
	10/2/2017	3.74	Not Sampled Due to the Presence of Free Product							
	2/13/2019	1.09	Not Sampled Due to the Presence of Free Product							
	3/10/2020	0.31	Not Sampled Due to the Presence of Free Product							

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J19-10768-06

Well	Date Sampled	Free Product Thickness	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-Tert-Butyl Ether (ETBE) (µg/L)	Ethyl-Tert-Butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL			128	240	NE	1,400	150	10,000	47	NE
03439-RW07	5/14/2013	4.99	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.83	Not Sampled Due to the Presence of Free Product							
	2/13/2019	1.30	Not Sampled Due to the Presence of Free Product							
	3/10/2020	1.44	Not Sampled Due to the Presence of Free Product							
03439-RW08	5/14/2013	---	430	<50,000	NA	<50,000	250	NA	NA	NA
	10/3/2017	---	<0.20	<6.7	<1.0	<6.7	<0.40	<33	<0.20	<5,000
	2/13/2019	---	<84	<1,600	<400	<1,600	<80	<10,000	<80	<1,600
	3/11/2020	---	<84	<1,600	<400	<80	<80	<10,000	<80	<1,600
03439-RW09	5/14/2013	0.60	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.04	Not Sampled Due to the Presence of Free Product							
	2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0
	3/11/2020	---	<42	<800	<200	<40	<40	<5,200	<40	<800
03439-RW10	5/14/2013	---	300	<50,000	NA	<50,000	210	NA	NA	NA
	10/3/2017	---	<10.0	<5,000	<189	<362	58.1 J	<13,100	<7.0	<5,000
	2/13/2019	---	1.2 J	13 J	<2.0	<8.0	0.97 J	<52	<0.40	<8.0
	3/11/2020	---	45 J	<800	<200	<40	<40	<5,200	<40	<800
03439-RW11	5/14/2013	---	350	<50,000	NA	<50,000	<5,000	NA	NA	NA
	10/2/2017	0.04	Not Sampled Due to the Presence of Free Product							
	2/13/2019	---	130 J	900 J	<200	<800	75 J	<5,200	<40	<800
	3/12/2020	---	96 J	<1,600	<400	<80	<80	<10,000	<80	<1,600
03439-RW12	5/14/2013	---	390	<20,000	NA	<20,000	240	NA	NA	NA
	10/3/2017	---	<5.0	<2,500	<94.5	<181	17.3 J	<6,550	<3.5	<2,500
	2/13/2019	---	6.1 J	62 J	<10	<40	4.9 J	<260	<2.0	<40
	3/12/2020	---	25 J	<400	<100	<20	<20	<2,600	<20	<400
03439-RW13	5/14/2013	---	230	<5,000	NA	<5,000	140	NA	NA	NA
	10/3/2017	---	<1.0	<500	<18.9	<36.2	<1.2	<1,310	<0.70	<500
	2/13/2019	---	0.97 J	8.1 J	<2.0	<8.0	1.1 J	<52	<0.40	<8.0
	3/11/2020	---	13 J	170 J	<40	<8.0	<8.0	<1,000	<8.0	<160
03439-RW14	10/2/2017	0.42	Not Sampled Due to the Presence of Free Product							
	2/13/2019	2.36	Not Sampled Due to the Presence of Free Product							
	3/10/2020	2.45	Not Sampled Due to the Presence of Free Product							
03439-RW15	10/2/2017	1.09	Not Sampled Due to the Presence of Free Product							
	2/13/2019	0.09	Not Sampled Due to the Presence of Free Product							
	3/10/2020	0.04	Not Sampled Due to the Presence of Free Product							
03439-RW16	10/2/2017	1.11	Not Sampled Due to the Presence of Free Product							
	2/13/2019	---	<84	<1,600	<400	<1,600	<80	<10,000	<80	<1,600
	3/12/2020	---	<210	<4,000	<1,000	<200	<200	<26,000	<200	<4,000
03439-RW17	10/2/2017	NA	Not Located / Not Accessible / Under Fallen Tree							
	2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0
	3/12/2020	---	11	700	<2.0	17 J	8.8	<52	<0.40	<8.0
03439-CK01	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA
	10/2/2017	---	<0.10	<50.0	<1.9	<3.6	0.23 J	<131	<0.070	<50.0
03439-CK02	2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0
	3/12/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0
	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
5/14/2013	---	<1	8	NA	<100	<10	NA	NA	NA	
10/2/2017	---	1.1 J	<50.0	<1.9	<3.6	0.79 J	<131	<0.070	<50.0	
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
3/12/2020	---	<0.42	<8.0	<2.0	0.58 J	<0.40	<52	<0.40	<8.0	

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #58050
 BLE Project No. J19-10768-06

Well	Date Sampled	Free Product Thickness	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-Tert-Butyl Ether (ETBE) (µg/L)	Ethyl-Tert-Butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL			128	240	NE	1,400	150	10,000	47	NE
03439-CK03	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	5/14/2013	---	<1	<100	NA	<100	<1	NA	NA	NA
	10/2/2017	---	<0.10	<50.0	<1.9	<3.6	0.72 J	<131	<0.070	<50.0
	2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0
03439-CK04	3/12/2020	---	<0.42	<8.0	<2.0	0.59 J	<0.40	<52	<0.40	<8.0
	2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0
03436-Sleep-1	3/12/2020	---	33 J	<400	<100	<20	<20	<2,600	<20	<400
03439-WW01	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	NA	Not Sampled							
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	5/14/2013	---	<10	<100	NA	<100	<10	NA	NA	NA
	10/2/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0
	2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0
3/9/2020	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
03439-WW01 Dup	3/9/2020	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0
Field Blank 01	3/10/2020	---	<0.42	<8.0	<2.0	1.5 J	<0.40	<52	<0.40	<8.0
Field Blank 02	3/11/2020	---	<0.42	<8.0	<2.0	1.7 J	<0.40	<52	<0.40	<8.0
Field Blank 03	3/12/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0
WSW Field Blank	3/9/2020	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0
Trip Blank	3/12/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0
WSW Trip Blank	3/9/2020	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0

Notes:

µg/L = micrograms/liter = approximate Parts Per Billion (ppb)

Historical analytical results obtained from historical reports obtained from SCDHEC FOI search. BLE is not responsible for the accuracy of this data.

bold values indicate detections

Shaded cells indicate concentrations above RBSLs

RBSL = Risk Based Screening Level

NA = Not Available / Unknown

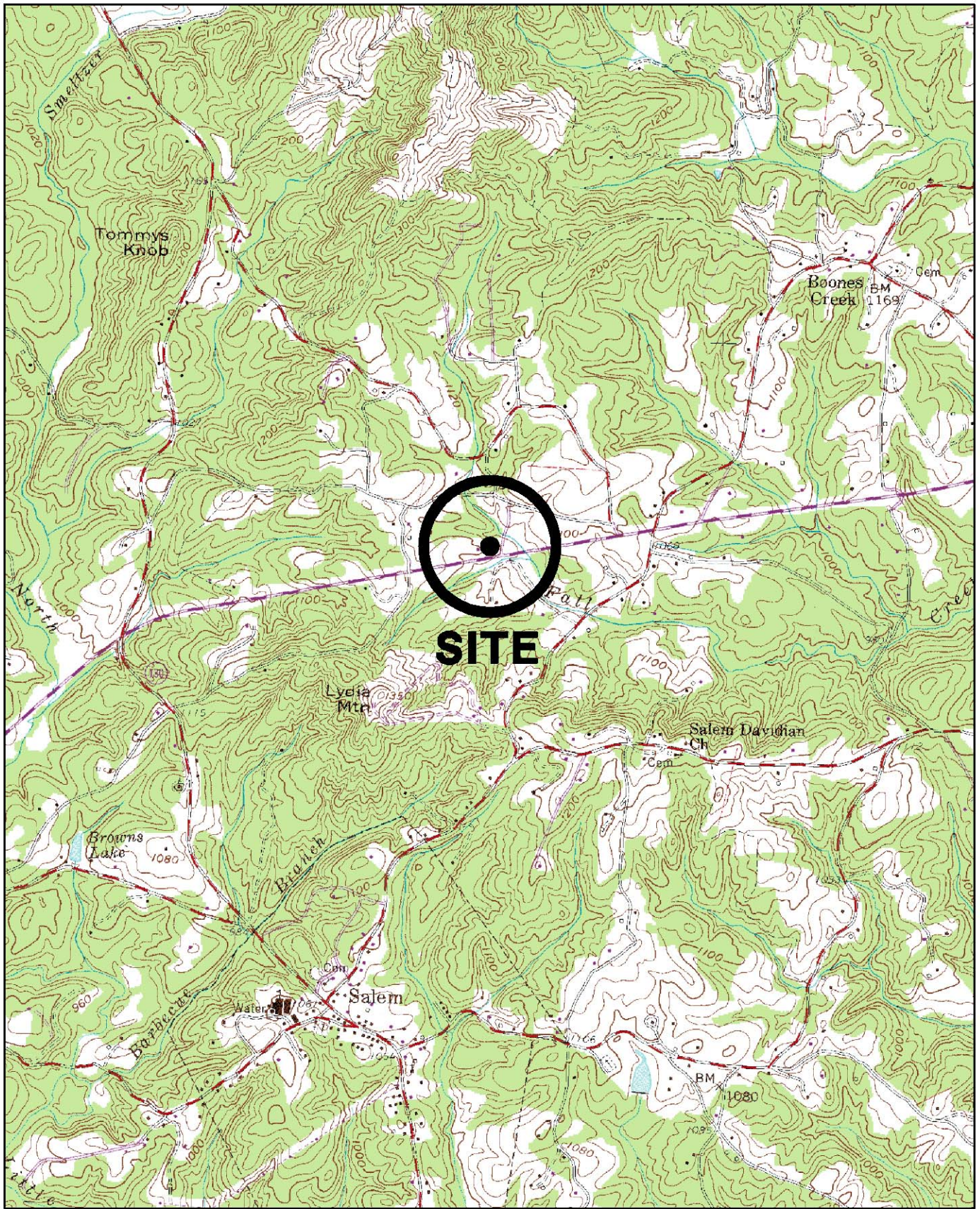
ND = Not Detected

NE = RBSL has not been established

NS = Not Sampled

FIGURES

APPENDICES



REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES,
SALEM, S.C. QUADRANGLE, PHOTOREVISED 1980.

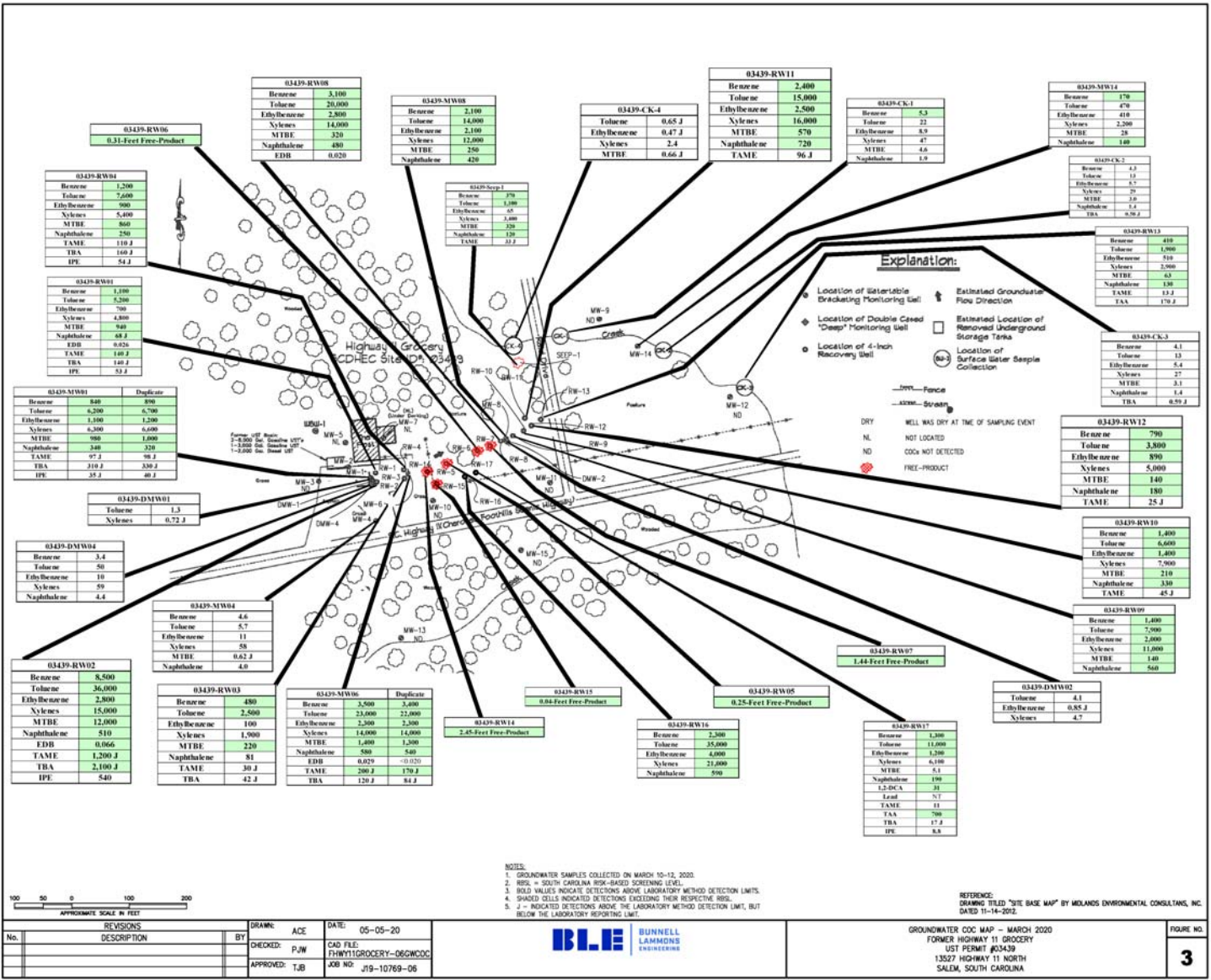
DRAWN: ACE	DATE: 12-23-19
CHECKED: TJB	CAD: FHWHY11GROCERY-06SLM
APPROVED:	JOB NO: J19-10769-06

BLE | **BUNNELL LAMMONS ENGINEERING**
 6004 Ponders Court, Greenville, SC 29615
 Phone: (854) 288-1255 Fax: (864) 288-4430

SITE LOCATION MAP
 FORMER HIGHWAY 11 GROCERY
 UST PERMIT #03439
 13527 HIGHWAY 11 NORTH
 SALEM, SOUTH CAROLINA

FIGURE

1



APPENDIX A
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. C E 3 Q G	Manifest Document No. 1 4 8 3 6	2. Page 1 of 1
3. Generator's Name and Mailing Address. Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, SC 29615				
4. Generator's Phone (864) 288-1265				
5. Transporter 1 Company Name Advanced Environmental Options, Inc	6. US EPA ID Number S C R 0 0 0 0 7 4 5 7 5	A. State Transporter's ID		
		B. Transporter 1 Phone (864) 488-9111		
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 Advanced Environmental Options, 25 Stan Perkins Road Spartanburg, SC 29307	10. US EPA ID Number S C R 0 0 0 0 7 4 5 7 5	E. State Facility's ID		
		F. Facility's Phone (864) 488-9111		
11. WASTE DESCRIPTION		Containers No.	Type	13. Total Quantity
a. Non-DOT/NON-RCRA Regulated Materials (Contains Water and Petroleum hydrocarbons) (PROP015558)		1	T T	0 1 1 4 0
b.		0		
c.		0		
d.		0		
G. Additional Descriptions for Materials Listed Above See attached site location spreadsheet		H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information a) ERG#: N/A L/- Emergency Contact: David Hitchens 864-488-9111, Cell 864-590-4648 Job # 17446				
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 Roger Noel		Signature <i>Roger Noel</i>		Date Month Day Year 3 19 20
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Derrick Brian		Date Month Day Year 3 19 20
		Signature <i>Derrick Brian</i>		
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Date Month Day Year
		Signature		
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				
Printed/Typed Name Chris Connell		Signature <i>Chris Connell</i>		Date Month Day Year 3 19 20

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

APPENDIX B

**MONITORING WELL PURGING AND SAMPLING FIELD PROCEDURES AND
MONITORING WELL PURGING AND SAMPLING LOGS**



APPENDIX B

MONITORING WELL PURGING AND SAMPLING PROCEDURES

If required, the monitoring wells were purged prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the groundwater quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, water temperature, and turbidity were measured periodically during well evacuation using instruments which were calibrated daily. Wells that were evacuated to dryness with less than three well volumes being removed were sampled as soon as the well had recovered enough to yield sufficient volume for a sample.

The monitoring wells were purged using a 3-foot long by 1.6-inch diameter disposable polyethylene bailer attached to an unused polypropylene cord. The wells were also sampled using a bailer as described above. To minimize the potential for cross-contamination between wells, a new clean bailer was used at each well.

Samples were placed in the appropriate laboratory supplied containers and marked with identifying numbers. Samples were maintained at 4°Celsius in a refrigerated sample cooler and shipped to Shealy Environmental Services, Inc. in Columbia, South Carolina via courier service for analysis.

INSTRUMENT CALIBRATION AND FREQUENCY QUALITY ASSURANCE / QUALITY CONTROL (QA/QC)

All Instrument Calibration and frequency methods are consistent with the procedures as outlined in BLE's Annual Contractor Quality Assurance Plan (ACQAP). The following calibration standards were used for calibration purposes on March 10-12, 2020.

Quality Assurance			
pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32
serial no.	324976	serial no.	324976
pH = 4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	Turbidity:	1.0-10.0 NTU
Chain of Custody			
Grant Davis	03/13/20 : 1020	Shealy	03/13/20 : 1020

**Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management**

Date 3/10/10
 Field Personnel P. Wylie & G. Davis
 General weather Conditions Cloudy
 Ambient Air Temperature (°C) 14
 Facility Name: Former Highway 11 Grocery Site ID# 03439
 Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 Standard 15,000
 pH = 7.0 Standard 1,413
 pH = 10.0 Standard 447
 DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU
 Chain of Custody

Well # 03439-MW01
 Well Diameter (D) 2 inch of 30.00 feet(ft)
 conversion factor (C): $3.143 \cdot (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 *Free Product Thickness _____ ft
 Total Well Depth (TWD) 30.00 ft
 Depth to Groundwater (DGW) 22.15 ft
 Length of Water Column (LWC = TWD-DGW) 7.85 ft
 1 Casing Volume (LWC * C) = _____ X .17 = 1.33 gals
 3 Casing Volumes = 3 X _____ = 3.99 gals
 (Standard Purge Volume)
 Total Volume of Water Purged Before Sampling 4.0 gals
 *If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Initial												
Volume Purged (gallons)	<u>16.58</u>	<u>1.5</u>	<u>3.0</u>	<u>4.0</u>								
Time (military)	<u>1658</u>	<u>1702</u>	<u>1705</u>	<u>1707</u>								
pH (s.u)	<u>5.64</u>	<u>5.97</u>	<u>5.76</u>	<u>5.79</u>								
Specific Conductivity (µS)	<u>6899</u>	<u>7368</u>	<u>7210</u>	<u>7170</u>								
Water Temperature (°C)	<u>18.1</u>	<u>19.4</u>	<u>19.4</u>	<u>19.5</u>								
Turbidity (NTU)	<u>2.19</u>	<u>4.67</u>	<u>19.2</u>	<u>9.58</u>								
Dissolved Oxygen (mg/l)	<u>2.0</u>	<u>1.9</u>	<u>1.8</u>	<u>1.5</u>								

Heavy Sulfide, Strong odor

Remarks: Well sampled at 1707 on 3/10/10 Dup @ 1709



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date: 3/6/20

Field Personnel: P. Wylie & G. Davis

General weather Conditions: Cloudy

Ambient Air Temperature (°C): 16

Facility Name: Former Highway 11 Grocery Site ID#: 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-MW02

Well Diameter (D) 2 inch of 35.00 feet(ft)

conversion factor (C) : $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 35.00 ft

Depth to Groundwater (DGW) 4.811 ft

Length of Water Column (LWC = TWD-DGW) 11.73 ft

1 Casing Volume (LWC*C) = _____ X .17 = 1.69 gals

3 Casing Volumes = 3 X _____ = 5.57 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 70 gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
	Initial											
	Volume Purged (gallons)			2.0	4.0	6.0	7.0					
	Time (military)	1020	1024	1024	1024	1032	1034					
	pH (s.u)	5.04	4.52	4.56	4.68	4.63	4.63					
	Specific Conductivity (µS)	80.99	10.45	72.07	67.21	66.59	66.59					
	Water Temperature (°C)	18.6	18.5	18.4	18.9	18.9	18.9					
	Turbidity (NTU)	1.87	41.3	21.1	10.8	9.91	9.91					
	Dissolved Oxygen (mg/l)	1.3	1.1	1.4	1.9	2.0	2.0					

Remarks: Well sampled at 1024 on 3/6/20



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date: 3/10/20

Field Personnel: P. Wylie & G. Davis

General weather Conditions: Cloudy

Ambient Air Temperature (°C): _____

Facility Name: Former Highway 11 Grocery Site ID#: 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 Standard 15,000

pH = 7.0 Standard 1,413

pH = 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-MW03

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 21.83 ft

Length of Water Column (LWC = TWD-DGW) 8.17 ft

1 Casing Volume (LWC·C) = _____ X .17 = 1.39 gals

3 Casing Volumes = 3 X _____ = 4.17 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 4.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	<u>1.5</u>	<u>3.0</u>	<u>4.5</u>								
Time (military)	<u>1047</u>	<u>1052</u>	<u>1056</u>	<u>1059</u>								
pH (s.u)	<u>5.54</u>	<u>5.84</u>	<u>5.97</u>	<u>5.95</u>								
Specific Conductivity (µS)	<u>3134</u>	<u>3069</u>	<u>2866</u>	<u>2821</u>								
Water Temperature (°C)	<u>18.6</u>	<u>17.9</u>	<u>17.9</u>	<u>17.9</u>								
Turbidity (NTU)	<u>5.08</u>	<u>34.4</u>	<u>17.7</u>	<u>9.93</u>								
Dissolved Oxygen (mg/l)	4.08 <u>3.1</u>	<u>2.9</u>	<u>2.9</u>	<u>2.6</u>								

Remarks: Well sampled at 1059 on 3/10/20



Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 3/10/20

Field Personnel P. Wyjcie & G. Davis

General weather Conditions cloudy

Ambient Air Temperature (°C) 14

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-MW04

Well Diameter (D) 2 inch of 35.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness 35.00 ft

Total Well Depth (TWD) 20.25 ft

Depth to Groundwater (DGW) 14.75 ft

Length of Water Column (LWC = TWD-DGW) 2.50 gals

1 Casing Volume (LWC * C) = 7.5 gals

3 Casing Volumes = 3 X 7.5 (Standard Purge Volume)

Total Volume of Water Purged Before Sampling 17.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>								
Time (military)	<u>1153</u>	<u>1157</u>	<u>1202</u>	<u>1204</u>								
pH (s.u)	<u>5.89</u>	<u>5.90</u>	<u>6.20</u>	<u>6.11</u>								
Specific Conductivity (µS)	<u>51.53</u>	<u>69.27</u>	<u>97.27</u>	<u>94.31</u>								
Water Temperature (°C)	<u>17.6</u>	<u>18.3</u>	<u>18.5</u>	<u>18.6</u>								
Turbidity (NTU)	<u>7.91</u>	<u>45.8</u>	<u>22.6</u>	<u>5.93</u>								
Dissolved Oxygen (mg/l)	<u>3.11</u>	<u>2.8</u>	<u>2.9</u>	<u>3.0</u>								

Remarks: Well sampled at 1204 on 3/10/20

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date _____

Field Personnel _____ P. Wylie & G. Davis

General weather Conditions _____

Ambient Air Temperature (°C) _____

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 Standard 15,000

pH = 7.0 Standard 1,413

pH = 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-MW05

Well Diameter (D) 2 inch of 35.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 35.00 ft

Depth to Groundwater (DGW) _____ ft

Length of Water Column (LWC = TWD-DGW) _____ ft

1 Casing Volume (LWC * C) = _____ X .17 = _____ gals

3 Casing Volumes = 3 X _____ = _____ gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---											
Time (military)												
pH (s.u)												
Specific Conductivity (µS)												
Water Temperature (°C)												
Turbidity (NTU)												
Dissolved Oxygen (mg/l)												

Well Not Located

Remarks: Well sampled at _____ on _____



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 3/11/20

Field Personnel P. Wylie & G. Davis

General weather Conditions Cloudy 22

Ambient Air Temperature (°C) _____

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 Standard 15,000

pH = 7.0 Standard 1,413

pH = 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-MW06

Well Diameter (D) 2 inch of 35.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 35.00 ft

Depth to Groundwater (DGW) 14.09 ft

Length of Water Column (LWC = TWD-DGW) 15.91 ft

1 Casing Volume (LWC * C) = _____ X .17 = 2.70 gals

3 Casing Volumes = 3 X _____ = 8.1 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 8.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time
Volume Purged (gallons)	Initial	1st Vol.	2nd Vol.
Time (military)	---	3.0	6.0
pH (s.u)	<u>0829</u>	<u>0837</u>	<u>0844</u>
Specific Conductivity (µS)	<u>7.88</u>	<u>6.19</u>	<u>5.82</u>
Water Temperature (°C)	<u>38.76</u>	<u>47.17</u>	<u>47.87</u>
Turbidity (NTU)	<u>18.2</u>	<u>18.6</u>	<u>18.9</u>
Dissolved Oxygen (mg/l)	<u>0.37</u>	<u>46.8</u>	<u>23.6</u>
	<u>3.1</u>	<u>2.8</u>	<u>2.4</u>
			<u>2.3</u>
			<u>8.5</u>
			<u>0851</u>
			<u>5.77</u>
			<u>46.31</u>
			<u>18.9</u>
			<u>6.89</u>
			<u>2.3</u>

Remarks: order Well sampled at 0851 on 3/11/20 App @ 0853



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date _____	Well # <u>03439-MW07</u>	Well Diameter (D) <u>2</u> inch of <u>40.00</u> feet(ft)	
Field Personnel _____ P. Wylie & G. Davis	conversion factor (C): $3.143 \cdot (D/2)^2$ for a 2 inch well C = 0.163 for a 4 inch well C = 0.652	*Free Product Thickness _____ ft	
General weather Conditions _____	Total Well Depth (TWD) <u>40.00</u> ft	Depth to Groundwater (DGW) _____ ft	
Ambient Air Temperature (°C) _____	Length of Water Column (LWC = TWD-DGW) _____ ft	1 Casing Volume (LWC * C) = _____ X .17 = _____ gals	
Facility Name: <u>Former Highway 11 Grocery</u> Site ID# <u>03439</u>	3 Casing Volumes = 3 X _____ = _____ gals (Standard Purge Volume)	Total Volume of Water Purged Before Sampling _____ gals	
Quality Assurance			
pH Sensor: <u>Oakton 35630-62</u> Conductivity Sensor: <u>35630-32</u>	serial no. <u>324976</u>		
serial no. <u>4.0</u> Standard	<u>15,000</u>		
pH = 7.0 <u>7.0</u> Standard	<u>1,413</u>		
pH = 10.0 <u>10.0</u> Standard	<u>447</u>		
DO Meter <u>YSI 60</u> Standard	<u>84</u>		
Standard <u>0% cal</u> Turbidity: <u>1.0-10.0 NTU</u>			
Chain of Custody			
Relinquished by _____ Date/Time _____	Received by _____ Date/Time _____		

Volume Purged (gallons)	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Time (military)	---									
pH (s.u)										
Specific Conductivity (µS)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/l)										

Well Not Located

Remarks: Well sampled at _____ on _____



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 3/12/20

Field Personnel P. Wylie & G. Davis

General weather Conditions Clear

Ambient Air Temperature (°C) AD

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-MW08

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C) : $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 14.37 ft

Length of Water Column (LWC = TWD-DGW) 15.63 ft

1 Casing Volume (LWC * C) = _____ X .17 = 1.81 gals

3 Casing Volumes = 3 X _____ = 5.43 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 5.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	Initial											
Time (military)	<u>0949</u>	<u>0853</u>	<u>40</u>	<u>55</u>								
pH (s.u)	<u>6.04</u>	<u>6.15</u>	<u>6.14</u>	<u>6.15</u>								
Specific Conductivity (µS)	<u>1129</u>	<u>1046</u>	<u>1031</u>	<u>1216</u>								
Water Temperature (°C)	<u>6.6</u>	<u>6.9</u>	<u>17.0</u>	<u>17.0</u>								
Turbidity (NTU)	<u>7.09</u>	<u>47.9</u>	<u>19.2</u>	<u>9.89</u>								
Dissolved Oxygen (mg/l)	<u>2.0</u>	<u>1.9</u>	<u>2.1</u>	<u>2.0</u>								

odor

Remarks: Well sampled at 0900 on 3/12/20



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 3/10/10

Field Personnel P. Wylie & G. Davis

General weather Conditions Cloudy

Ambient Air Temperature (°C) 16

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 Standard 15,000

pH = 7.0 Standard 1,413

pH = 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-MW09

Well Diameter (D) 2 inch of 10.00 feet(ft)

conversion factor (C) : $3.143 \cdot (D/2)^2$

for a 2 inch well C = 0.163

for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 10.00 ft

Depth to Groundwater (DGW) 2.28 ft

Length of Water Column (LWC = TWD-DGW) 7.72 ft

1 Casing Volume (LWC * C) = _____ X .17 = 1.31 gals

3 Casing Volumes = 3 X _____ = 3.97 gals

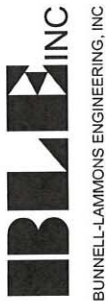
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 4.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	Initial	1.5	7.0	4.5								
Time (military)	1335	1340	1350	1357								
pH (s.u)	5.78	5.79	5.93	5.90								
Specific Conductivity (µS)	3646	3435	3404	5327								
Water Temperature (°C)	12.5	12.5	12.5	12.6								
Turbidity (NTU)	9.70	3.2	1.5	5.93								
Dissolved Oxygen (mg/l)	3.0	3.1	3.0	2.9								

Remarks: Well sampled at 1333 on 3/10/10



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 3/10/80

Field Personnel P. Wylie & G. Davis

General weather Conditions Cloudy 10

Ambient Air Temperature (°C) _____

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 Standard 15,000

pH = 7.0 Standard 1,413

pH = 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-MW10

Well Diameter (D) 2 inch of 28.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 1726 ft

Depth to Groundwater (DGW) 1094 ft

Length of Water Column (LWC = TWD-DGW) _____ ft

1 Casing Volume (LWC * C) = _____ X .17 = 1.96 gals

3 Casing Volumes = 3 X _____ = 5.88 gals

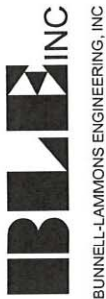
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 70 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.0	4.0	6.0	16.31					
Time (military)	1617	1621	1625	1629	1631					
pH (s.u)	5.61	5.86	5.98	6.04	5.89					
Specific Conductivity (µS)	6502	7202	6945	6284	6385					
Water Temperature (°C)	16.9	17.6	17.7	17.7	17.7					
Turbidity (NTU)	9.49	4.66	3.54	2.1	9.93					
Dissolved Oxygen (mg/l)	4.1	4.8	3.9	3.8	3.8					

Remarks: Well sampled at 1631 on 3/10/80



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 3/11/20

Field Personnel P. Wylie & G. Davis

General weather Conditions Clear

Ambient Air Temperature (°C) 22

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 Standard 15,000

pH = 7.0 Standard 1,413

pH = 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-MW11

Well Diameter (D) 2 inch of 23.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 23.00 ft

Depth to Groundwater (DGW) 14.25 ft

Length of Water Column (LWC = TWD-DGW) 8.75 ft

1 Casing Volume (LWC * C) = 1.49 gals

3 Casing Volumes = 3 X 4.47 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 4.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	1.50	3.0	4.5					
Time (military)	1107	1111	1114	1116					
pH (s.u)	5.41	5.29	5.17	5.12					
Specific Conductivity (µS)	2023	1899	1887	1879					
Water Temperature (°C)	16.8	16.0	16.9	17.0					
Turbidity (NTU)	6.31	3.54	10.1	9.60					
Dissolved Oxygen (mg/l)	4.3	4.4	4.2	4.2					

Remarks: Well sampled at 1116 on 3/11/20



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 3/16/88
 Field Personnel P. Whyte & G. Davis
 General weather Conditions Cloudy
 Ambient Air Temperature (°C) _____
 Facility Name: Former Highway 11 Grocery Site ID# 03439

Well # 03439-MW12
 Well Diameter (D) 2 inch of 12.00 feet(ft)
 conversion factor (C): $3.143 \cdot (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 *Free Product Thickness _____ ft
 Total Well Depth (TWD) 270 ft
 Depth to Groundwater (DGW) _____ ft
 Length of Water Column (LWC = TWD-DGW) 930 ft
 1 Casing Volume (LWC * C) = _____ X .17 = _____ gals
 3 Casing Volumes = 3 X _____ = _____ gals
 (Standard Purge Volume)

Total Volume of Water Purged Before Sampling 510 gals

*If free product is present over 1/8 inch, sampling will not be required.

Quality Assurance
 pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 15,000
 pH = 4.0 Standard 1,413
 pH = 7.0 Standard 447
 pH = 10.0 Standard 84
 DO Meter YSI 60
 Standard 0% cal Turbidity: 1.0-10.0 NTU
 Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
---	4.0	4.0	5.0						
Volume Purged (gallons)	148	148	148						
Time (military)	5:57	5:49	5:34						
pH (s.u)	7.7	7.41	7.72						
Specific Conductivity (µS)	11.2	11.4	11.2						
Water Temperature (°C)	7.21	7.65	7.69						
Turbidity (NTU)	2.3	2.1	2.1						
Dissolved Oxygen (mg/l)									

Remarks: Well sampled at 1485 on 3/16/88



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 3/10/00
 Field Personnel P. Wylie & G. Davis
 General weather Conditions _____
 Ambient Air Temperature (°C) _____
 Facility Name: Former Highway 11 Grocery Site ID# 03439
 Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 Standard 15,000
 pH = 7.0 Standard 1,413
 pH = 10.0 Standard 447
DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU
 Chain of Custody

Well # 03439-MW13
 Well Diameter (D) 2 inch of 12.00 feet(ft)
 conversion factor (C): $3.143 * (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 *Free Product Thickness _____ ft
 Total Well Depth (TWD) 13.70 12.00 ft
 Depth to Groundwater (DGW) 6.14 7.54 ft
 Length of Water Column (LWC = TWD-DGW) _____ ft
 1 Casing Volume (LWC*C) = _____ X .17 = _____ gals 1.29
 3 Casing Volumes = 3 X _____ = _____ gals 3.87
 (Standard Purge Volume)
 Total Volume of Water Purged Before Sampling 4.0 gals
 *If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Initial	---	1.5	3.0	4.0								
Volume Purged (gallons)	1455	1501	1508	1514								
Time (military)	5:16	5:20	5:20	5:25								
pH (s.u)	5.405	5.44	5.41	5.59								
Specific Conductivity (µS)	141.5	141.4	142	141.5								
Water Temperature (°C)	9.01	9.13	9.24	9.09								
Turbidity (NTU)	3.9	4.0	4.1	4.0								
Dissolved Oxygen (mg/l)												

Remarks: Well sampled at 1514 on 3/10/00



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date: 3/11/20

Field Personnel: P. Wylie & G. Davis

General weather Conditions: Cloudy 16

Ambient Air Temperature (°C): _____

Facility Name: Former Highway 11 Grocery Site ID#: 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 Standard 15,000

pH = 7.0 Standard 1,413

pH = 10.0 Standard 447

DO Meter YSI 60 Turbidity: 1.0-10.0 NTU

Standard 0% cal Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # 03439-MW15

Well Diameter (D) 2 inch of 9.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 12.3 9.00 ft

Depth to Groundwater (DGW) 9.00 ft

Length of Water Column (LWC = TWD-DGW) 3.44 ft

1 Casing Volume (LWC * C) = 0.41 gals

3 Casing Volumes = 3 X 1.22 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 0.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	0.5								
Time (military)	1535	1548								
pH (s.u)	5.82	5.32								
Specific Conductivity (µS)	17,36	15,72								
Water Temperature (°C)	13.0	13.1								
Turbidity (NTU)	8.91	31.2								
Dissolved Oxygen (mg/l)	4.0	3.5								

Well Dry @ 0.5 gpl.

Remarks: Well sampled at 1050 on 3/11/20



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 3/11/20
 Field Personnel P. Wylie & G. Davis
 General weather Conditions Clear
 Ambient Air Temperature (°C) 32
 Facility Name: Former Highway 11 Grocery Site ID# 03439
 Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 Standard 15,000
 pH = 7.0 Standard 1,413
 pH = 10.0 Standard 447
 DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU
 Chain of Custody

Well # 03439-DMW02
 Well Diameter (D) 2 inch of 75.00 feet(ft)
 conversion factor (C): $3.143 \cdot (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 *Free Product Thickness _____ ft
 Total Well Depth (TWD) 75.00 ft
 Depth to Groundwater (DGW) 15.55 ft
 Length of Water Column (LWC = TWD-DGW) 59.45 ft
 1 Casing Volume (LWC * C) = _____ X .17 = 10.11 gals
 3 Casing Volumes = 3 X _____ = 30.33 gals
 (Standard Purge Volume)
 Total Volume of Water Purged Before Sampling 30.5 gals
 *If free product is present over 1/8 inch, sampling will not be required.

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	<u>10.5</u>	<u>21.0</u>	<u>30.5</u>						
Time (military)	<u>12:17</u>	<u>12:32</u>	<u>12:49</u>						
pH (s.u)	<u>5.91</u>	<u>6.28</u>	<u>6.40</u>						
Specific Conductivity (µS)	<u>4896</u>	<u>5348</u>	<u>5138</u>						
Water Temperature (°C)	<u>18.9</u>	<u>18.5</u>	<u>18.2</u>						
Turbidity (NTU)	<u>1.83</u>	<u>4.26</u>	<u>9.94</u>						
Dissolved Oxygen (mg/l)	<u>4.4</u>	<u>4.5</u>	<u>4.7</u>						

Remarks: Well sampled at 3/11/20

Well Cap Replaced



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 3/10/20
 Field Personnel P. Wylie & G. Davis
 General weather Conditions Cloudy 10
 Ambient Air Temperature (°C) _____
 Facility Name: Former Highway 11 Grocery Site ID# 03439
 Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 Standard 15,000
 pH = 7.0 Standard 1,413
 pH = 10.0 Standard 447
DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU
 Chain of Custody

Well # 03439-DMW04
 Well Diameter (D) 2 inch of 60.00 feet(ft)
 conversion factor (C) : $3.143 \cdot (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 *Free Product Thickness _____ ft
 Total Well Depth (TWD) 60.00 ft
 Depth to Groundwater (DGW) 22.40 ft
 Length of Water Column (LWC = TWD-DGW) 37.6 ft
 1 Casing Volume (LWC * C) = _____ X .17 = 6.39 gals
 3 Casing Volumes = 3 X _____ = 19.17 gals
 (Standard Purge Volume)
 Total Volume of Water Purged Before Sampling 19.5 gals
 *If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Initial	---	---	---	---	---	---	---	---	---	---	---	---
Volume Purged (gallons)		<u>6.5</u>	<u>17.0</u>	<u>19.5</u>								
Time (military)	<u>0635</u>	<u>0657</u>	<u>0659</u>	<u>0942</u>								
pH (s.u)	<u>5.6</u>	<u>5.56</u>	<u>5.73</u>	<u>5.73</u>								
Specific Conductivity (µS)	<u>4288</u>	<u>41.51</u>	<u>42.12</u>	<u>42.04</u>								
Water Temperature (°C)	<u>17.7</u>	<u>18.3</u>	<u>18.3</u>	<u>18.0</u>								
Turbidity (NTU)	<u>57.18</u>	<u>37.6</u>	<u>12.2</u>	<u>9.81</u>								
Dissolved Oxygen (mg/l)	<u>4.0</u>	<u>3.8</u>	<u>4.0</u>	<u>2.7</u>								

Remarks: Well sampled at 0942 on 3/10/20



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 3/11/20 Field Personnel P. Wylie & G. Davis

General weather Conditions Clear

Ambient Air Temperature (°C) 22

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-RW01

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C) : $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 22.26 ft

Length of Water Column (LWC = TWD-DGW) 7.74 ft

1 Casing Volume (LWC * C) = _____ X .65 = 5.03 gals

3 Casing Volumes = 3 X _____ = 15.09 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 18.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Initial	---	---	---	---	---	---	---	---	---	---	---	---
Volume Purged (gallons)	<u>112.1</u>	<u>5.5</u>	<u>11.0</u>	<u>16.5</u>	<u>18.0</u>							
Time (military)	<u>6:50</u>	<u>11:23</u>	<u>11:25</u>	<u>11:27</u>	<u>11:29</u>							
pH (s.u)	<u>179.9</u>	<u>6.42</u>	<u>6.50</u>	<u>6.54</u>	<u>6.51</u>							
Specific Conductivity (µS)	<u>19.8</u>	<u>102.6</u>	<u>74.08</u>	<u>62.57</u>	<u>65.94</u>							
Water Temperature (°C)	<u>100</u>	<u>20.2</u>	<u>19.9</u>	<u>20.0</u>	<u>20.0</u>							
Turbidity (NTU)	<u>2.3</u>	<u>4.20</u>	<u>9.49</u>	<u>9.24</u>	<u>8.83</u>							
Dissolved Oxygen (mg/l)		<u>1.8</u>	<u>1.4</u>	<u>1.5</u>	<u>1.6</u>							

Odor

Remarks: Well sampled at 1129 on 3/11/20

**Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management**

Date 3/11/20
 Field Personnel P. Wylie & G. Davis
 General weather Conditions Clear
 Ambient Air Temperature (°C) 22
 Facility Name: Former Highway 11 Grocery Site ID# 03439
 Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 Standard 15,000
 pH = 7.0 Standard 1,413
 pH = 10.0 Standard 447
DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU
 Chain of Custody

Well # 03439-RW02
 Well Diameter (D) 2 inch of 30.00 feet(ft)
 conversion factor (C): $3.143 \cdot (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 *Free Product Thickness _____ ft
 Total Well Depth (TWD) 30.00 ft
 Depth to Groundwater (DGW) 21.51 ft
 Length of Water Column (LWC = TWD-DGW) 8.49 ft
 1 Casing Volume (LWC * C) = _____ X .65 = 5.52 gals
 3 Casing Volumes = 3 X _____ = 16.56 gals
 (Standard Purge Volume)
 Total Volume of Water Purged Before Sampling 18.0 gals
 *If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Initial	---	6.0	12.0	18.0								
Volume Purged (gallons)	1157	1155	1157	1159								
Time (military)	6:49	6:34	6:43	6:44								
pH (s.u)	48.78	53.28	68.81	80.32								
Specific Conductivity (µS)	19.8	20.0	20.1	20.1								
Water Temperature (°C)	398	10.6	3.44	3.42								
Turbidity (NTU)	1.5	1.8	1.7	1.8								
Dissolved Oxygen (mg/l)												

Odor

Remarks: Well sampled at 1159 on 3/11/20

**Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management**

Date 3/11/20
 Field Personnel P. Wylie & G. Davis
 General weather Conditions Clear
 Ambient Air Temperature (°C) 22
 Facility Name: Former Highway 11 Grocery Site ID# 03439
 Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 Standard 15,000
 pH = 7.0 Standard 1,413
 pH = 10.0 Standard 447
DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU
 Chain of Custody

Well # 03439-RW03
 Well Diameter (D) 2 inch of 30.00 feet(ft)
 conversion factor (C): $3.143 \cdot (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 *Free Product Thickness — ft
 Total Well Depth (TWD) 30.00 ft
 Depth to Groundwater (DGW) 19.34 ft
 Length of Water Column (LWC = TWD-DGW) 10.66 ft
 1 Casing Volume (LWC * C) = — X .65 = 6.93 gals
 3 Casing Volumes = 3 X — = 20.79 gals
 (Standard Purge Volume)
 Total Volume of Water Purged Before Sampling — gals
 *If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	Initial	---										
Time (military)	<u>1300</u>											
pH (s.u)	<u>6.54</u>											
Specific Conductivity (µS)	<u>113.8</u>											
Water Temperature (°C)	<u>20.0</u>											
Turbidity (NTU)	<u>8.73</u>											
Dissolved Oxygen (mg/l)	<u>1.9</u>											

Grab sampled
Odes

Remarks: Well sampled at 1300 on 3/11/20 Partial obstruction @ 19.70' BTDC
 Pump will not progress past obstruction



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 3/11/20 Field Personnel P. Wylie & G. Davis

General weather Conditions Clear

Ambient Air Temperature (°C) 22

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-RW04

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C) : $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness ✓ ft

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 19.99 ft

Length of Water Column (LWC = TWD-DGW) 10.01 ft

1 Casing Volume (LWC * C) = 0.65 X 19.52 = 12.78 gals

3 Casing Volumes = 3 X 12.78 = 38.34 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 21.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	<u>6.5</u>	<u>13.0</u>	<u>19.5</u>	<u>21.0</u>					
Time (military)	<u>1323</u>	<u>1327</u>	<u>1329</u>	<u>1331</u>	<u>1333</u>					
pH (s.u)	<u>6.79</u>	<u>6.53</u>	<u>6.32</u>	<u>6.31</u>	<u>6.24</u>					
Specific Conductivity (µS)	<u>100.7</u>	<u>42.41</u>	<u>37.91</u>	<u>38.49</u>	<u>38.84</u>					
Water Temperature (°C)	<u>19.9</u>	<u>20.0</u>	<u>20.0</u>	<u>20.0</u>	<u>20.1</u>					
Turbidity (NTU)	<u>17.0</u>	<u>15.1</u>	<u>3.52</u>	<u>2.70</u>	<u>4.05</u>					
Dissolved Oxygen (mg/l)	<u>1.5</u>	<u>1.8</u>	<u>2.1</u>	<u>2.1</u>	<u>2.0</u>					

Odor

Remarks: Well sampled at 1333 on 3/11/20

Field Data Information Sheet for Ground Water Sampling

Division of Underground Storage Tank Management

Date _____

Field Personnel _____ P. Wylie & G. Davis

General weather Conditions _____

Ambient Air Temperature (°C) _____

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-RW05

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): $3.143 * (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652

*Free Product Thickness 0.75 ft 21.25
30.00 ft

Total Well Depth (TWD) 21.50 ft

Depth to Groundwater (DGW) _____ ft

Length of Water Column (LWC = TWD-DGW) _____ ft

1 Casing Volume (LWC*C) = _____ X .65 = _____ gals

3 Casing Volumes = 3 X _____ = _____ gals
 (Standard Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post

Volume Purged (gallons)									
Time (military)									
pH (s.u)									
Specific Conductivity (µS)									
Water Temperature (°C)									
Turbidity (NTU)									
Dissolved Oxygen (mg/l)									

Not sampled - FPP

Remarks: Well sampled at _____ on _____



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date _____

Field Personnel _____ P. Wylie & G. Davis

General weather Conditions _____

Ambient Air Temperature (°C) _____

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-RW06

Well Diameter (D) 2 inch of 26.50 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness 0.31 ft 15.88

Total Well Depth (TWD) 26.50 ft

Depth to Groundwater (DGW) 16.19 ft

Length of Water Column (LWC = TWD-DGW) _____ ft

1 Casing Volume (LWC * C) = _____ X .65 = _____ gals

3 Casing Volumes = 3 X _____ = _____ gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---											
Time (military)												
pH (s.u)												
Specific Conductivity (µS)												
Water Temperature (°C)												
Turbidity (NTU)												
Dissolved Oxygen (mg/l)												

N/S - FPP

Remarks: Well sampled at _____ on _____



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date _____

Field Personnel _____ P. Wyjie & G. Davis

General weather Conditions _____

Ambient Air Temperature (°C) _____

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-RW07

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness 1.44 ft 17.79

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 19.23 ft

Length of Water Column (LWC = TWD-DGW) _____ ft

1 Casing Volume (LWC * C) = _____ X .65 = _____ gals

3 Casing Volumes = 3 X _____ = _____ gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---											
Time (military)												
pH (s.u)												
Specific Conductivity (µS)												
Water Temperature (°C)												
Turbidity (NTU)												
Dissolved Oxygen (mg/l)												

N/S- FFP

Remarks: Well sampled at _____ on _____

**Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management**

Date 3/11/20
 Field Personnel P. Wylie & G. Davis
 General weather Conditions Clear
 Ambient Air Temperature (°C) 22
 Facility Name: Former Highway 11 Grocery Site ID# 03439
 Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 Standard 15,000
 pH = 7.0 Standard 1,413
 pH = 10.0 Standard 447
DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU
 Chain of Custody

Well # 03439-RW08
 Well Diameter (D) 2 inch of 28.50 feet(ft)
 conversion factor (C): $3.143 \cdot (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 *Free Product Thickness — ft
 Total Well Depth (TWD) 28.50 ft
 Depth to Groundwater (DGW) 18.39 ft
 Length of Water Column (LWC = TWD-DGW) 10.11 ft
 1 Casing Volume (LWC*C) = 0.65 = 6.57 gals
 3 Casing Volumes = 3 X — = 19.71 gals
 (Standard Purge Volume)
 Total Volume of Water Purged Before Sampling 20.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time
Initial	1st Vol.	2nd Vol.	3rd Vol.
Volume Purged (gallons)	7.0	14.0	21.0
Time (military)	1304	1326	1344
pH (s.u)	6.13	6.20	6.13
Specific Conductivity (µS)	1349	1152	1163
Water Temperature (°C)	17.9	18.0	18.1
Turbidity (NTU)	7.51	39.6	20.1
Dissolved Oxygen (mg/l)	2.9	2.8	2.3
4th Vol.	5th Vol.	6th Vol.	7th Vol.
8th Vol.	Post		

order
 Remarks: Well sampled at 1314 on 3/11/20



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 3/11/20

Field Personnel P. Wylie & G. Davis

General weather Conditions Clear

Ambient Air Temperature (°C) 72

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-RW09

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 19.11 ft

Length of Water Column (LWC = TWD-DGW) 10.89 ft

1 Casing Volume (LWC * C) = _____ X .65 = 7.08 gals

3 Casing Volumes = 3 X _____ = 21.24 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 21.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	<u>7.5</u>	<u>15.0</u>	<u>21.5</u>								
Time (military)	<u>1332</u>	<u>1534</u>	<u>1536</u>	<u>1538</u>								
pH (s.u)	<u>6.02</u>	<u>5.97</u>	<u>6.00</u>	<u>5.97</u>								
Specific Conductivity (µS)	<u>5404</u>	<u>5834</u>	<u>6257</u>	<u>6357</u>								
Water Temperature (°C)	<u>20.1</u>	<u>18.9</u>	<u>18.2</u>	<u>18.1</u>								
Turbidity (NTU)	<u>7.48</u>	<u>2.26</u>	<u>1.1</u>	<u>9.57</u>								
Dissolved Oxygen (mg/l)	<u>2.6</u>	<u>2.4</u>	<u>2.2</u>	<u>2.3</u>								

Remarks: Well sampled at 1536 on 3/11/20

Other



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 3/13/20

Field Personnel P. Wylie & G. Davis

General weather Conditions Clear

Ambient Air Temperature (°C) 20

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 Standard 15,000

pH = 7.0 Standard 1,413

pH = 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-RW11

Well Diameter (D) 2 inch of 27.00 feet(ft)

conversion factor (C) : $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 27.00 ft

Depth to Groundwater (DGW) 14.21 ft

Length of Water Column (LWC = TWD-DGW) 12.79 ft

1 Casing Volume (LWC * C) = 8.31 gals

3 Casing Volumes = 24.94 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 25.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time
Initial	1st Vol.	2nd Vol.	3rd Vol.
Volume Purged (gallons)	<u>---</u>	<u>8.5</u>	<u>17.0</u>
Time (military)	<u>1031</u>	<u>1033</u>	<u>1037</u>
pH (s.u)	<u>6.34</u>	<u>6.31</u>	<u>6.17</u>
Specific Conductivity (µS)	<u>116.3</u>	<u>116.1</u>	<u>116.2</u>
Water Temperature (°C)	<u>17.6</u>	<u>17.6</u>	<u>17.5</u>
Turbidity (NTU)	<u>1.14</u>	<u>3.24</u>	<u>4.7</u>
Dissolved Oxygen (mg/l)	<u>2.7</u>	<u>2.2</u>	<u>2.2</u>

4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post

odor, silica

Remarks: Well sampled at 1031 on 3/13/20

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Date 3/16/20
 Field Personnel P. Wylie & G. Davis
 General weather Conditions Clear
 Ambient Air Temperature (°C) 20
 Facility Name: Former Highway 11 Grocery Site ID# 03439
 Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32
 serial no. 324976 serial no. 324976
 pH = 4.0 Standard 15,000
 pH = 7.0 Standard 1,413
 pH = 10.0 Standard 447
DO Meter YSI 60 Standard 84
 Standard 0% cal Turbidity: 1.0-10.0 NTU
 Chain of Custody

Well # 03439-RW12
 Well Diameter (D) 2 inch of 30.00 feet(ft)
 conversion factor (C): $3.143 * (D/2)^2$
 for a 2 inch well C = 0.163
 for a 4 inch well C = 0.652
 *Free Product Thickness _____ ft
 Total Well Depth (TWD) 30.00 ft
 Depth to Groundwater (DGW) 16.53 ft
 Length of Water Column (LWC = TWD-DGW) 13.47 ft
 1 Casing Volume (LWC*C) = _____ X .65 = 8.76 gals
 3 Casing Volumes = 3 X _____ X _____ RW-11 26.27 gals
 (Standard Purge Volume)
 Total Volume of Water Purged Before Sampling 270 gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time
Initial	1st Vol.	2nd Vol.	3rd Vol.
Volume Purged (gallons)	9.0	18.0	27.0
Time (military)	0951	1005	1016
pH (s.u)	6.32	5.91	6.17
Specific Conductivity (µS)	1550	1152	1163
Water Temperature (°C)	17.9	18.0	19.5
Turbidity (NTU)	7.39	7.11	9.61
Dissolved Oxygen (mg/l)	2.0	1.9	2.3
4th Vol.	5th Vol.	6th Vol.	7th Vol.
8th Vol.	Post		

odor

Remarks: Well sampled at 1016 on 3/16/20



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date _____

Field Personnel _____ P. Wylie & G. Davis

General weather Conditions _____

Ambient Air Temperature (°C) _____

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 Standard 15,000

pH = 7.0 Standard 1,413

pH = 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # 03439-RW14

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): $3.143 * (D/2)^2$

for a 2 inch well C = 0.163

for a 4 inch well C = 0.652

*Free Product Thickness 2.45 ft 21.03

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 23.48 ft

Length of Water Column (LWC = TWD-DGW) _____ ft

1 Casing Volume (LWC*C) = _____ X .65 = _____ gals

3 Casing Volumes = 3 X _____ = _____ gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)										
pH (s.u)										
Specific Conductivity (µS)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/l)										

N/S - FPP

Remarks: Well sampled at _____ on _____



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date _____

Field Personnel _____ P. Wylie & G. Davis

General weather Conditions _____

Ambient Air Temperature (°C) _____

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-RW15

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness 0.04 ft 20.56

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 20.60 ft

Length of Water Column (LWC = TWD-DGW) _____ ft

1 Casing Volume (LWC·C) = _____ X .65 = _____ gals

3 Casing Volumes = 3 X _____ = _____ gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post

Volume Purged (gallons)									
Time (military)									
pH (s.u)									
Specific Conductivity (µS)									
Water Temperature (°C)									
Turbidity (NTU)									
Dissolved Oxygen (mg/l)									

N/S - FPP

Remarks: Well sampled at _____ on _____



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date 3/12/20

Field Personnel P. Wylie & G. Davis

General weather Conditions Clear

Ambient Air Temperature (°C) 50

Facility Name: Former Highway 11 Grocery Site ID# 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 4.0 Standard 15,000

pH = 7.0 7.0 Standard 1,413

pH = 10.0 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Well # 03439-RW16

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft

Total Well Depth (TWD) 19.02 ft

Depth to Groundwater (DGW) 10.98 ft

Length of Water Column (LWC = TWD-DGW) _____ ft

1 Casing Volume (LWC * C) = _____ X .65 = 7.14 gals

3 Casing Volumes = 3 X _____ = 21.41 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 32.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
	<u>7.5</u>	<u>15.0</u>	<u>22.5</u>						
Volume Purged (gallons)	<u>11.6</u>	<u>11.3</u>	<u>11.3</u>						
Time (military)	<u>6:26</u>	<u>6:24</u>	<u>6:20</u>						
pH (s.u)	<u>8.68</u>	<u>9.56</u>	<u>8.91</u>						
Specific Conductivity (µS)	<u>18.9</u>	<u>18.3</u>	<u>18.3</u>						
Water Temperature (°C)	<u>8.97</u>	<u>8.94</u>	<u>8.95</u>						
Turbidity (NTU)	<u>2.4</u>	<u>2.4</u>	<u>2.5</u>						
Dissolved Oxygen (mg/l)		<u>2.7</u>							

adar, shan

Remarks: Well sampled at 1137 on 3/12/20



BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Date: 3/12/20

Field Personnel: P. Wylie & G. Davis

General weather Conditions: Clear

Ambient Air Temperature (°C): 20

Facility Name: Former Highway 11 Grocery Site ID#: 03439

Quality Assurance

pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32

serial no. 324976 serial no. 324976

pH = 4.0 Standard 15,000

pH = 7.0 Standard 1,413

pH = 10.0 Standard 447

DO Meter YSI 60 Standard 84

Standard 0% cal Turbidity: 1.0-10.0 NTU

Chain of Custody

Well # 03439-RW17

Well Diameter (D) 2 inch of 30.00 feet(ft)

conversion factor (C): $3.143 \cdot (D/2)^2$
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness - ft

Total Well Depth (TWD) 30.00 ft

Depth to Groundwater (DGW) 15.30 ft

Length of Water Column (LWC = TWD-DGW) 14.70 ft

1 Casing Volume (LWC * C) = 9.56 gals

3 Casing Volumes = 3 X 28.67 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 33.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

Relinquished by	Date/Time	Received by	Date/Time	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
	Initial			10.0	20.0	20.0	30.0					
	Volume Purged (gallons)			11.5	11.5	18.0	18.0					
	Time (military)			5:30	5:53	5:59	5:59					
	pH (s.u)			17.83	46.73	46.51	49.23					
	Specific Conductivity (µS)			17.7	17.4	17.6	17.6					
	Water Temperature (°C)			7.61	7.61	7.61	7.61					
	Turbidity (NTU)			2.0	2.2	2.2	2.3					
	Dissolved Oxygen (mg/l)											

ohw

Remarks: Well sampled at 1805 on 3/12/20

APPENDIX C

LABORATORY DATA SHEETS



Report of Analysis

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, SC 29615
Attention: Trevor Benton

Project Name: Former Hwy 11 Grocery

Project Number: 10768-06

Lot Number: **VC13040**

Date Completed: 03/20/2020

03/20/2020 1:34 PM

Approved and released by:
Lab Director - Greenville: **Lucas Odom**



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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 Bunnell-Lammons Engineering, Inc. Lot Number: VC13040

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 NELAC standards, the Pace Analytical Services, LLC ("Pace") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Pace policies. Any exceptions to the NELAC standards, the QAMP, 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.

VOCs by GC/MS

Surrogate recovery for the following samples was outside the upper control limit: VC13040-002, VC13040-003. These samples did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

PACE ANALYTICAL SERVICES, LLC

Sample Summary Bunnell-Lammons Engineering, Inc. Lot Number: VC13040

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	03439-WSW-1	Aqueous	03/09/2020 1645	03/13/2020
002	03439-WSW-1 DUP	Aqueous	03/09/2020 1647	03/13/2020
003	03439-WSW-FB-1	Aqueous	03/09/2020 1630	03/13/2020
004	03439-TB-1	Aqueous	03/09/2020	03/13/2020

(4 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary
Bunnell-Lammons Engineering, Inc.
Lot Number: VC13040

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
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(0 detections)

Description: 03439-WSW-1

Matrix: Aqueous

Date Sampled: 03/09/2020 1645

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	524.2	524.2	1	03/19/2020 1745	TML		48393	
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		98	70-130					

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	5030B	8260D	1	03/17/2020 1155	BWS		48079	
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		116	70-130					
Toluene-d8		109	70-130					
Bromofluorobenzene		105	70-130					

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	504.1	504.1	1	03/18/2020 1618	JJG	03/18/2020 0914	48171	
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

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: **03439-WSW-1**Matrix: **Aqueous**Date Sampled: **03/09/2020 1645**Date Received: **03/13/2020**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		98	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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 \geq DL

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-WSW-1 DUP

Matrix: Aqueous

Date Sampled: 03/09/2020 1647

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	524.2	524.2	1	03/19/2020 1811	TML		48393	
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		93	70-130					
1,2-Dichlorobenzene-d4		97	70-130					

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	5030B	8260D	1	03/17/2020 1218	BWS		48079	
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		99	70-130					
Toluene-d8	N	135	70-130					
Bromofluorobenzene		107	70-130					

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	504.1	504.1	1	03/18/2020 1642	JJG	03/18/2020 0914	48171	
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

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		94	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-WSW-FB-1

Matrix: Aqueous

Date Sampled: 03/09/2020 1630

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	03/19/2020 1358	TML		48393

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		94	70-130
1,2-Dichlorobenzene-d4		94	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	03/17/2020 1111	BWS		48079

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	N	140	70-130
Toluene-d8		97	70-130
Bromofluorobenzene		111	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	504.1	504.1	1	03/18/2020 1706	JJG	03/18/2020 0914	48171

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

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

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W = Reported on wet weight basis

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Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		94	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-TB-1

Matrix: Aqueous

Date Sampled: 03/09/2020

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	524.2	524.2	1	03/19/2020 1423	TML		48393

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		92	70-130
1,2-Dichlorobenzene-d4		95	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	03/17/2020 1133	BWS		48079

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		113	70-130
Toluene-d8		108	70-130
Bromofluorobenzene		102	70-130

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

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J = Estimated result < LOQ and ≥ DL

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W = Reported on wet weight basis

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QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: VQ48079-001

Matrix: Aqueous

Batch: 48079

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	03/17/2020 1028
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	03/17/2020 1028
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	03/17/2020 1028
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	03/17/2020 1028
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	03/17/2020 1028
Ethanol	ND		1	100	52	ug/L	03/17/2020 1028
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	03/17/2020 1028
tert-butyl alcohol (TBA)	ND		1	20	0.40	ug/L	03/17/2020 1028

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		109	70-130
Bromofluorobenzene		94	70-130

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: VQ48079-002

Matrix: Aqueous

Batch: 48079

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	106	70-130	03/17/2020 0856
tert-Amyl methyl ether (TAME)	50	51		1	102	70-130	03/17/2020 0856
tert-Butyl formate (TBF)	250	270		1	106	70-130	03/17/2020 0856
Diisopropyl ether (IPE)	50	52		1	103	70-130	03/17/2020 0856
3,3-Dimethyl-1-butanol	1000	1100		1	110	70-130	03/17/2020 0856
Ethanol	5000	5500		1	110	70-130	03/17/2020 0856
Ethyl-tert-butyl ether (ETBE)	50	53		1	105	70-130	03/17/2020 0856
tert-butyl alcohol (TBA)	1000	1000		1	102	70-130	03/17/2020 0856

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	70-130
Toluene-d8		79	70-130
Bromofluorobenzene		102	70-130

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: VQ48393-001

Matrix: Aqueous

Batch: 48393

Prep Method: 524.2

Analytical Method: 524.2

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Benzene	ND		1	0.50	0.40	ug/L	03/19/2020 1232
1,2-Dichloroethane	ND		1	0.50	0.40	ug/L	03/19/2020 1232
Ethylbenzene	ND		1	0.50	0.40	ug/L	03/19/2020 1232
Methyl tertiary butyl ether (MTBE)	ND		1	0.50	0.40	ug/L	03/19/2020 1232
Naphthalene	ND		1	0.50	0.40	ug/L	03/19/2020 1232
Toluene	ND		1	0.50	0.40	ug/L	03/19/2020 1232
Xylenes (total)	ND		1	0.50	0.40	ug/L	03/19/2020 1232
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		96	70-130				
1,2-Dichlorobenzene-d4		96	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: VQ48393-002

Matrix: Aqueous

Batch: 48393

Prep Method: 524.2

Analytical Method: 524.2

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	5.0	4.8		1	97	70-130	03/19/2020 1207
1,2-Dichloroethane	5.0	4.5		1	90	70-130	03/19/2020 1207
Ethylbenzene	5.0	4.6		1	92	70-130	03/19/2020 1207
Methyl tertiary butyl ether (MTBE)	5.0	4.9		1	97	70-130	03/19/2020 1207
Naphthalene	5.0	4.6		1	93	70-130	03/19/2020 1207
Toluene	5.0	5.0		1	99	70-130	03/19/2020 1207
Xylenes (total)	10	9.3		1	93	70-130	03/19/2020 1207
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		93	70-130				
1,2-Dichlorobenzene-d4		96	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - MB

Sample ID: VQ48171-001

Matrix: Aqueous

Batch: 48171

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 03/18/2020 0914

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0040	ug/L	03/18/2020 1404
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		95	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - LCS

Sample ID: VQ48171-002

Matrix: Aqueous

Batch: 48171

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 03/18/2020 0914

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.25		1	101	70-130	03/18/2020 1417
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		96	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - Duplicate

Sample ID: VC13040-001DU

Matrix: Aqueous

Batch: 48171

Prep Method: 504.1

Analytical Method: 504.1

Prep Date: 03/18/2020 0914

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	ND		1	0.00	20	03/18/2020 1630
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		97	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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

**Chain of Custody
and
Miscellaneous Documents**



Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.shealylab.com

Number 104891

Client <i>BLE</i>	Report to Contact <i>Tommy Anderson</i>	Telephone No. / E-mail	Quote No.										
Address <i>10004 Anderson Ct.</i>		Analysis (Attach list if more spaces is needed)											
City <i>Columbia</i>	State <i>SC</i>	Zip Code <i>29115</i>	Page <i>1 of 1</i>										
Project Name <i>Foster Animal Company</i>	Project No. <i>10718-24</i>	 VC13040 <small>Lab ID</small>											
Sample ID / Description <i>D3439-W451-1</i>	Date <i>3/19/20</i>	Matrix <i>Soil</i>	No. of Conditions by Preservative Type										
<i>W451-1</i>	<i>3/19/20</i>	<i>Soil</i>	<table border="1" style="font-size: small;"> <tr><td>CRACK</td><td></td></tr> <tr><td>FRST</td><td></td></tr> <tr><td>GL</td><td></td></tr> <tr><td>MOCH</td><td></td></tr> <tr><td>SOIL</td><td>63</td></tr> </table>	CRACK		FRST		GL		MOCH		SOIL	63
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<i>TS-1</i>	<i>Lab</i>	<i>Lab</i>	<table border="1" style="font-size: small;"> <tr><td>CRACK</td><td></td></tr> <tr><td>FRST</td><td></td></tr> <tr><td>GL</td><td></td></tr> <tr><td>MOCH</td><td></td></tr> <tr><td>SOIL</td><td>2</td></tr> </table>	CRACK		FRST		GL		MOCH		SOIL	2
CRACK													
FRST													
GL													
MOCH													
SOIL	2												

Turnaround Time Required (Prior lab approval required for expedited TAT)	Sample Disposal	Possible Hazards / Identification	OC Requirements (Specify)
<input type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)	<input type="checkbox"/> Return to Client <input type="checkbox"/> Incineration by Lab	<input checked="" type="checkbox"/> Bio-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Air Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown	Date: <i>3/13/20</i> Time: <i>10:20</i> Date: _____ Time: _____ Date: _____ Time: _____ Date: <i>3/13/20</i> Time: <i>13:40</i>
1. Retinquished by <i>Clayton Davis</i>	Date: <i>3/13/20</i> Time: <i>10:00</i>	1. Received by <i>Clayton Davis</i>	Date: _____ Time: _____
2. Retinquished by <i>Clayton Davis</i>	Date: <i>3/13/20</i> Time: <i>13:40</i>	2. Received by	Date: _____ Time: _____
3. Retinquished by	Date: _____ Time: _____	3. Received by	Date: _____ Time: _____
4. Retinquished by	Date: _____ Time: _____	4. Laboratory received by <i>Clayton Davis</i>	Date: <i>3/13/20</i> Time: <i>13:40</i>

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

PACE ANALYTICAL SERVICES, LLC

Shealy Environmental Services, Inc.
Document Number: ME0018C-14

Page 1 of 1
Effective Date: 8/2/2018

Sample Receipt Checklist (SRC)

Client: BLE Cooler Inspected by/date: LKH / 03/13/2020 Lot #: VCI3040

Means of receipt: <input checked="" type="checkbox"/> SEST <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: <u>NA</u> Chlorine Strip ID: <u>NA</u> Tested by: <u>NA</u>	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cap ID: <u>NA</u> <u>2.8 / 2.8 °C NA / NA °C NA / NA °C NA / NA °C</u>	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>6</u> IR Gun Correction Factor: <u>0</u> °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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).
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₃ /TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote # <u>NA</u>
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> mL of circle one: H ₂ SO ₄ , HNO ₃ , HCl, NaOH using SR # <u>NA</u> . Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below.	
Sample(s) <u>NA</u> were received with bubbles >6 mm in diameter.	
Sample(s) <u>NA</u> were received with TRC > 0.5 mg/L (If #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: <u>NA</u> .	
SR barcode labels applied by: <u>BMG</u> Date: <u>03/13/2020</u>	
Comments: 	



Report of Analysis

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, SC 29615
Attention: Trevor Benton

Project Name: Former Highway 11 Grocery
Project Number: 10768-06
Lot Number: **VC13072**
Date Completed: 03/25/2020

03/25/2020 12:47 PM
Approved and released by:
Lab Director - Greenville: **Lucas Odom**



The electronic signature above is the equivalent of a handwritten signature.
This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Bunnell-Lammons Engineering, Inc. Lot Number: VC13072

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 NELAC standards, the Pace Analytical Services, LLC ("Pace") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Pace policies. Any exceptions to the NELAC standards, the QAMP, 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.

VOCs by GC/MS

The following samples were analyzed with headspace in the sample vial: VC13072-030, VC13072-031. The vial with the least amount of headspace has been used for analysis.

EDB by Microextraction

Sample -006, -019, -020, and -023 have been qualified with a "P" as the relative percent difference between the two GC columns exceeds method criteria. Per SCDHEC, the lesser of the two values has been reported.

PACE ANALYTICAL SERVICES, LLC

Sample Summary Bunnell-Lammons Engineering, Inc. Lot Number: VC13072

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	03439-MW01	Aqueous	03/10/2020 1707	03/13/2020
002	03439-MWDup	Aqueous	03/10/2020 1709	03/13/2020
003	03439-MW02	Aqueous	03/10/2020 1034	03/13/2020
004	03439-MW03	Aqueous	03/10/2020 1059	03/13/2020
005	03439-MW04	Aqueous	03/10/2020 1206	03/13/2020
006	03439-MW06	Aqueous	03/11/2020 0851	03/13/2020
007	03439-MW06Dup	Aqueous	03/11/2020 0853	03/13/2020
008	03439-MW08	Aqueous	03/12/2020 0900	03/13/2020
009	03439-MW09	Aqueous	03/10/2020 1333	03/13/2020
010	03439-MW10	Aqueous	03/10/2020 1631	03/13/2020
011	03439-MW11	Aqueous	03/11/2020 1116	03/13/2020
012	03439-MW12	Aqueous	03/10/2020 1425	03/13/2020
013	03439-MW13	Aqueous	03/10/2020 1514	03/13/2020
014	03439-MW14	Aqueous	03/10/2020 1400	03/13/2020
015	03439-MW15	Aqueous	03/11/2020 1050	03/13/2020
016	03439-DMW01	Aqueous	03/10/2020 0904	03/13/2020
017	03439-DMW02	Aqueous	03/11/2020 1249	03/13/2020
018	03439-DMW04	Aqueous	03/10/2020 0942	03/13/2020
019	03439-RW01	Aqueous	03/11/2020 1129	03/13/2020
020	03439-RW02	Aqueous	03/11/2020 1159	03/13/2020
021	03439-RW03	Aqueous	03/11/2020 1300	03/13/2020
022	03439-RW04	Aqueous	03/11/2020 1333	03/13/2020
023	03439-RW08	Aqueous	03/11/2020 1314	03/13/2020
024	03439-RW09	Aqueous	03/11/2020 1338	03/13/2020
025	03439-RW10	Aqueous	03/11/2020 1442	03/13/2020
026	03439-RW11	Aqueous	03/12/2020 1042	03/13/2020
027	03439-RW12	Aqueous	03/12/2020 1016	03/13/2020
028	03439-RW13	Aqueous	03/11/2020 1445	03/13/2020
029	03439-RW16	Aqueous	03/12/2020 1133	03/13/2020
030	03439-RW17	Aqueous	03/12/2020 1205	03/13/2020
031	03439-CK-1	Aqueous	03/12/2020 1325	03/13/2020
032	03439-CK-2	Aqueous	03/12/2020 1320	03/13/2020
033	03439-CK-3	Aqueous	03/12/2020 1315	03/13/2020
034	03439-CK-4	Aqueous	03/12/2020 1330	03/13/2020
035	03439-Seep-1	Aqueous	03/12/2020 1350	03/13/2020
036	03439-FB-1	Aqueous	03/10/2020 0800	03/13/2020
037	03439-FB-2	Aqueous	03/11/2020 0800	03/13/2020
038	03439-FB-3	Aqueous	03/12/2020 0800	03/13/2020
039	03439-TB-1	Aqueous	03/12/2020	03/13/2020

(39 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary Bunnell-Lammons Engineering, Inc. Lot Number: VC13072

Sample ID	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	03439-MW01	Aqueous	tert-Amyl methyl ether	8260D	97	J	ug/L	9
001	03439-MW01	Aqueous	Benzene	8260D	840		ug/L	9
001	03439-MW01	Aqueous	Diisopropyl ether (IPE)	8260D	35	J	ug/L	9
001	03439-MW01	Aqueous	Ethylbenzene	8260D	1100		ug/L	9
001	03439-MW01	Aqueous	Methyl tertiary butyl ether	8260D	980		ug/L	9
001	03439-MW01	Aqueous	Naphthalene	8260D	340		ug/L	9
001	03439-MW01	Aqueous	tert-butyl alcohol (TBA)	8260D	310	J	ug/L	9
001	03439-MW01	Aqueous	Toluene	8260D	6200		ug/L	9
001	03439-MW01	Aqueous	Xylenes (total)	8260D	6300		ug/L	9
002	03439-MWDup	Aqueous	tert-Amyl methyl ether	8260D	98	J	ug/L	10
002	03439-MWDup	Aqueous	Benzene	8260D	890		ug/L	10
002	03439-MWDup	Aqueous	Diisopropyl ether (IPE)	8260D	40	J	ug/L	10
002	03439-MWDup	Aqueous	Ethylbenzene	8260D	1200		ug/L	10
002	03439-MWDup	Aqueous	Methyl tertiary butyl ether	8260D	1000		ug/L	10
002	03439-MWDup	Aqueous	Naphthalene	8260D	320		ug/L	10
002	03439-MWDup	Aqueous	tert-butyl alcohol (TBA)	8260D	330	J	ug/L	10
002	03439-MWDup	Aqueous	Toluene	8260D	6700		ug/L	10
002	03439-MWDup	Aqueous	Xylenes (total)	8260D	6600		ug/L	10
005	03439-MW04	Aqueous	Benzene	8260D	4.6		ug/L	13
005	03439-MW04	Aqueous	Ethylbenzene	8260D	11		ug/L	13
005	03439-MW04	Aqueous	Methyl tertiary butyl ether	8260D	0.62	J	ug/L	13
005	03439-MW04	Aqueous	Naphthalene	8260D	4.0		ug/L	13
005	03439-MW04	Aqueous	Toluene	8260D	5.7		ug/L	13
005	03439-MW04	Aqueous	Xylenes (total)	8260D	58		ug/L	13
006	03439-MW06	Aqueous	tert-Amyl methyl ether	8260D	200	J	ug/L	14
006	03439-MW06	Aqueous	Benzene	8260D	3500		ug/L	14
006	03439-MW06	Aqueous	Ethylbenzene	8260D	2300		ug/L	14
006	03439-MW06	Aqueous	Methyl tertiary butyl ether	8260D	1400		ug/L	14
006	03439-MW06	Aqueous	Naphthalene	8260D	580		ug/L	14
006	03439-MW06	Aqueous	tert-butyl alcohol (TBA)	8260D	120	J	ug/L	14
006	03439-MW06	Aqueous	Toluene	8260D	23000		ug/L	14
006	03439-MW06	Aqueous	Xylenes (total)	8260D	14000		ug/L	14
006	03439-MW06	Aqueous	1,2-Dibromoethane (EDB)	8011	0.029	P	ug/L	14
007	03439-MW06Dup	Aqueous	tert-Amyl methyl ether	8260D	170	J	ug/L	15
007	03439-MW06Dup	Aqueous	Benzene	8260D	3400		ug/L	15
007	03439-MW06Dup	Aqueous	Ethylbenzene	8260D	2300		ug/L	15
007	03439-MW06Dup	Aqueous	Methyl tertiary butyl ether	8260D	1300		ug/L	15
007	03439-MW06Dup	Aqueous	Naphthalene	8260D	540		ug/L	15
007	03439-MW06Dup	Aqueous	tert-butyl alcohol (TBA)	8260D	84	J	ug/L	15
007	03439-MW06Dup	Aqueous	Toluene	8260D	22000		ug/L	15
007	03439-MW06Dup	Aqueous	Xylenes (total)	8260D	14000		ug/L	15
008	03439-MW08	Aqueous	Benzene	8260D	2100		ug/L	16
008	03439-MW08	Aqueous	Ethylbenzene	8260D	2100		ug/L	16
008	03439-MW08	Aqueous	Methyl tertiary butyl ether	8260D	250		ug/L	16
008	03439-MW08	Aqueous	Naphthalene	8260D	420		ug/L	16

Detection Summary (Continued)

Lot Number: VC13072

Sample ID	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
008	03439-MW08	Aqueous	Toluene	8260D	14000		ug/L	16
008	03439-MW08	Aqueous	Xylenes (total)	8260D	12000		ug/L	16
014	03439-MW14	Aqueous	Benzene	8260D	170		ug/L	22
014	03439-MW14	Aqueous	Ethylbenzene	8260D	410		ug/L	22
014	03439-MW14	Aqueous	Methyl tertiary butyl ether	8260D	28		ug/L	22
014	03439-MW14	Aqueous	Naphthalene	8260D	140		ug/L	22
014	03439-MW14	Aqueous	Toluene	8260D	470		ug/L	22
014	03439-MW14	Aqueous	Xylenes (total)	8260D	2200		ug/L	22
016	03439-DMW01	Aqueous	Toluene	8260D	1.3		ug/L	24
016	03439-DMW01	Aqueous	Xylenes (total)	8260D	0.72	J	ug/L	24
017	03439-DMW02	Aqueous	Ethylbenzene	8260D	0.85	J	ug/L	25
017	03439-DMW02	Aqueous	Toluene	8260D	4.1		ug/L	25
017	03439-DMW02	Aqueous	Xylenes (total)	8260D	4.7		ug/L	25
018	03439-DMW04	Aqueous	Benzene	8260D	3.4		ug/L	26
018	03439-DMW04	Aqueous	Ethylbenzene	8260D	10		ug/L	26
018	03439-DMW04	Aqueous	Naphthalene	8260D	4.4		ug/L	26
018	03439-DMW04	Aqueous	Toluene	8260D	50		ug/L	26
018	03439-DMW04	Aqueous	Xylenes (total)	8260D	59		ug/L	26
019	03439-RW01	Aqueous	tert-Amyl methyl ether	8260D	140	J	ug/L	27
019	03439-RW01	Aqueous	Benzene	8260D	1100		ug/L	27
019	03439-RW01	Aqueous	Diisopropyl ether (IPE)	8260D	53	J	ug/L	27
019	03439-RW01	Aqueous	Ethylbenzene	8260D	700		ug/L	27
019	03439-RW01	Aqueous	Methyl tertiary butyl ether	8260D	940		ug/L	27
019	03439-RW01	Aqueous	Naphthalene	8260D	68	J	ug/L	27
019	03439-RW01	Aqueous	tert-butyl alcohol (TBA)	8260D	140	J	ug/L	27
019	03439-RW01	Aqueous	Toluene	8260D	5200		ug/L	27
019	03439-RW01	Aqueous	Xylenes (total)	8260D	4800		ug/L	27
019	03439-RW01	Aqueous	1,2-Dibromoethane (EDB)	8011	0.026	P	ug/L	27
020	03439-RW02	Aqueous	tert-Amyl methyl ether	8260D	1200	J	ug/L	28
020	03439-RW02	Aqueous	Benzene	8260D	8500		ug/L	28
020	03439-RW02	Aqueous	Diisopropyl ether (IPE)	8260D	540		ug/L	28
020	03439-RW02	Aqueous	Ethylbenzene	8260D	2800		ug/L	28
020	03439-RW02	Aqueous	Methyl tertiary butyl ether	8260D	12000		ug/L	28
020	03439-RW02	Aqueous	Naphthalene	8260D	510		ug/L	28
020	03439-RW02	Aqueous	tert-butyl alcohol (TBA)	8260D	2100	J	ug/L	28
020	03439-RW02	Aqueous	Toluene	8260D	36000		ug/L	28
020	03439-RW02	Aqueous	Xylenes (total)	8260D	15000		ug/L	28
020	03439-RW02	Aqueous	1,2-Dibromoethane (EDB)	8011	0.066	P	ug/L	28
021	03439-RW03	Aqueous	tert-Amyl methyl ether	8260D	30	J	ug/L	29
021	03439-RW03	Aqueous	Benzene	8260D	480		ug/L	29
021	03439-RW03	Aqueous	Ethylbenzene	8260D	100		ug/L	29
021	03439-RW03	Aqueous	Methyl tertiary butyl ether	8260D	220		ug/L	29
021	03439-RW03	Aqueous	Naphthalene	8260D	81		ug/L	29
021	03439-RW03	Aqueous	tert-butyl alcohol (TBA)	8260D	42	J	ug/L	29
021	03439-RW03	Aqueous	Toluene	8260D	2500		ug/L	29
021	03439-RW03	Aqueous	Xylenes (total)	8260D	1900		ug/L	29
022	03439-RW04	Aqueous	tert-Amyl methyl ether	8260D	110	J	ug/L	30
022	03439-RW04	Aqueous	Benzene	8260D	1200		ug/L	30

Detection Summary (Continued)

Lot Number: VC13072

Sample ID	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
022	03439-RW04	Aqueous	Diisopropyl ether (IPE)	8260D	54	J	ug/L	30
022	03439-RW04	Aqueous	Ethylbenzene	8260D	900		ug/L	30
022	03439-RW04	Aqueous	Methyl tertiary butyl ether	8260D	860		ug/L	30
022	03439-RW04	Aqueous	Naphthalene	8260D	250		ug/L	30
022	03439-RW04	Aqueous	tert-butyl alcohol (TBA)	8260D	160	J	ug/L	30
022	03439-RW04	Aqueous	Toluene	8260D	7600		ug/L	30
022	03439-RW04	Aqueous	Xylenes (total)	8260D	5400		ug/L	30
023	03439-RW08	Aqueous	Benzene	8260D	3100		ug/L	31
023	03439-RW08	Aqueous	Ethylbenzene	8260D	2800		ug/L	31
023	03439-RW08	Aqueous	Methyl tertiary butyl ether	8260D	320		ug/L	31
023	03439-RW08	Aqueous	Naphthalene	8260D	480		ug/L	31
023	03439-RW08	Aqueous	Toluene	8260D	20000		ug/L	31
023	03439-RW08	Aqueous	Xylenes (total)	8260D	14000		ug/L	31
023	03439-RW08	Aqueous	1,2-Dibromoethane (EDB)	8011	0.020	P	ug/L	31
024	03439-RW09	Aqueous	Benzene	8260D	1400		ug/L	32
024	03439-RW09	Aqueous	Ethylbenzene	8260D	2000		ug/L	32
024	03439-RW09	Aqueous	Methyl tertiary butyl ether	8260D	140		ug/L	32
024	03439-RW09	Aqueous	Naphthalene	8260D	560		ug/L	32
024	03439-RW09	Aqueous	Toluene	8260D	7900		ug/L	32
024	03439-RW09	Aqueous	Xylenes (total)	8260D	11000		ug/L	32
025	03439-RW10	Aqueous	tert-Amyl methyl ether	8260D	45	J	ug/L	33
025	03439-RW10	Aqueous	Benzene	8260D	1400		ug/L	33
025	03439-RW10	Aqueous	Ethylbenzene	8260D	1400		ug/L	33
025	03439-RW10	Aqueous	Methyl tertiary butyl ether	8260D	210		ug/L	33
025	03439-RW10	Aqueous	Naphthalene	8260D	330		ug/L	33
025	03439-RW10	Aqueous	Toluene	8260D	6600		ug/L	33
025	03439-RW10	Aqueous	Xylenes (total)	8260D	7900		ug/L	33
026	03439-RW11	Aqueous	tert-Amyl methyl ether	8260D	96	J	ug/L	34
026	03439-RW11	Aqueous	Benzene	8260D	2400		ug/L	34
026	03439-RW11	Aqueous	Ethylbenzene	8260D	2500		ug/L	34
026	03439-RW11	Aqueous	Methyl tertiary butyl ether	8260D	570		ug/L	34
026	03439-RW11	Aqueous	Naphthalene	8260D	720		ug/L	34
026	03439-RW11	Aqueous	Toluene	8260D	15000		ug/L	34
026	03439-RW11	Aqueous	Xylenes (total)	8260D	16000		ug/L	34
027	03439-RW12	Aqueous	tert-Amyl methyl ether	8260D	25	J	ug/L	35
027	03439-RW12	Aqueous	Benzene	8260D	790		ug/L	35
027	03439-RW12	Aqueous	Ethylbenzene	8260D	890		ug/L	35
027	03439-RW12	Aqueous	Methyl tertiary butyl ether	8260D	140		ug/L	35
027	03439-RW12	Aqueous	Naphthalene	8260D	180		ug/L	35
027	03439-RW12	Aqueous	Toluene	8260D	3800		ug/L	35
027	03439-RW12	Aqueous	Xylenes (total)	8260D	5000		ug/L	35
028	03439-RW13	Aqueous	tert-Amyl alcohol (TAA)	8260D	170	J	ug/L	36
028	03439-RW13	Aqueous	tert-Amyl methyl ether	8260D	13	J	ug/L	36
028	03439-RW13	Aqueous	Benzene	8260D	410		ug/L	36
028	03439-RW13	Aqueous	Ethylbenzene	8260D	510		ug/L	36
028	03439-RW13	Aqueous	Methyl tertiary butyl ether	8260D	63		ug/L	36
028	03439-RW13	Aqueous	Naphthalene	8260D	130		ug/L	36
028	03439-RW13	Aqueous	Toluene	8260D	1900		ug/L	36

Detection Summary (Continued)

Lot Number: VC13072

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
028	03439-RW13	Aqueous	Xylenes (total)	8260D	2900		ug/L	36
029	03439-RW16	Aqueous	Benzene	8260D	2300		ug/L	37
029	03439-RW16	Aqueous	Ethylbenzene	8260D	4000		ug/L	37
029	03439-RW16	Aqueous	Naphthalene	8260D	590		ug/L	37
029	03439-RW16	Aqueous	Toluene	8260D	35000		ug/L	37
029	03439-RW16	Aqueous	Xylenes (total)	8260D	21000		ug/L	37
030	03439-RW17	Aqueous	tert-Amyl alcohol (TAA)	8260D	700		ug/L	38
030	03439-RW17	Aqueous	tert-Amyl methyl ether	8260D	11		ug/L	38
030	03439-RW17	Aqueous	Benzene	8260D	1300		ug/L	38
030	03439-RW17	Aqueous	1,2-Dichloroethane	8260D	31		ug/L	38
030	03439-RW17	Aqueous	Diisopropyl ether (IPE)	8260D	8.8		ug/L	38
030	03439-RW17	Aqueous	Ethylbenzene	8260D	1200		ug/L	38
030	03439-RW17	Aqueous	Methyl tertiary butyl ether	8260D	5.1		ug/L	38
030	03439-RW17	Aqueous	Naphthalene	8260D	190		ug/L	38
030	03439-RW17	Aqueous	tert-butyl alcohol (TBA)	8260D	17	J	ug/L	38
030	03439-RW17	Aqueous	Toluene	8260D	11000		ug/L	38
030	03439-RW17	Aqueous	Xylenes (total)	8260D	6100		ug/L	38
031	03439-CK-1	Aqueous	Benzene	8260D	5.3		ug/L	39
031	03439-CK-1	Aqueous	Ethylbenzene	8260D	8.9		ug/L	39
031	03439-CK-1	Aqueous	Methyl tertiary butyl ether	8260D	4.6		ug/L	39
031	03439-CK-1	Aqueous	Naphthalene	8260D	1.9		ug/L	39
031	03439-CK-1	Aqueous	Toluene	8260D	22		ug/L	39
031	03439-CK-1	Aqueous	Xylenes (total)	8260D	47		ug/L	39
032	03439-CK-2	Aqueous	Benzene	8260D	4.3		ug/L	40
032	03439-CK-2	Aqueous	Ethylbenzene	8260D	5.7		ug/L	40
032	03439-CK-2	Aqueous	Methyl tertiary butyl ether	8260D	3.0		ug/L	40
032	03439-CK-2	Aqueous	Naphthalene	8260D	1.4		ug/L	40
032	03439-CK-2	Aqueous	tert-butyl alcohol (TBA)	8260D	0.58	J	ug/L	40
032	03439-CK-2	Aqueous	Toluene	8260D	13		ug/L	40
032	03439-CK-2	Aqueous	Xylenes (total)	8260D	29		ug/L	40
033	03439-CK-3	Aqueous	Benzene	8260D	4.1		ug/L	41
033	03439-CK-3	Aqueous	Ethylbenzene	8260D	5.4		ug/L	41
033	03439-CK-3	Aqueous	Methyl tertiary butyl ether	8260D	3.1		ug/L	41
033	03439-CK-3	Aqueous	Naphthalene	8260D	1.4		ug/L	41
033	03439-CK-3	Aqueous	tert-butyl alcohol (TBA)	8260D	0.59	J	ug/L	41
033	03439-CK-3	Aqueous	Toluene	8260D	13		ug/L	41
033	03439-CK-3	Aqueous	Xylenes (total)	8260D	27		ug/L	41
034	03439-CK-4	Aqueous	Ethylbenzene	8260D	0.47	J	ug/L	42
034	03439-CK-4	Aqueous	Methyl tertiary butyl ether	8260D	0.66	J	ug/L	42
034	03439-CK-4	Aqueous	Toluene	8260D	0.65	J	ug/L	42
034	03439-CK-4	Aqueous	Xylenes (total)	8260D	2.4		ug/L	42
035	03439-Seep-1	Aqueous	tert-Amyl methyl ether	8260D	33	J	ug/L	43
035	03439-Seep-1	Aqueous	Benzene	8260D	370		ug/L	43
035	03439-Seep-1	Aqueous	Ethylbenzene	8260D	65		ug/L	43
035	03439-Seep-1	Aqueous	Methyl tertiary butyl ether	8260D	320		ug/L	43
035	03439-Seep-1	Aqueous	Naphthalene	8260D	120		ug/L	43
035	03439-Seep-1	Aqueous	Toluene	8260D	1100		ug/L	43
035	03439-Seep-1	Aqueous	Xylenes (total)	8260D	3400		ug/L	43

Detection Summary (Continued)**Lot Number: VC13072**

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
036	03439-FB-1	Aqueous	tert-butyl alcohol (TBA)	8260D	1.5	J	ug/L	44
037	03439-FB-2	Aqueous	tert-butyl alcohol (TBA)	8260D	1.7	J	ug/L	45

(191 detections)

Description: 03439-MW01

Matrix: Aqueous

Date Sampled: 03/10/2020 1707

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	50	03/17/2020 1645	BWS		48083		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		1000	400	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260D	97	J	500	21	ug/L	1	
Benzene	71-43-2	8260D	840		50	20	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260D	ND		250	100	ug/L	1	
1,2-Dichloroethane	107-06-2	8260D	ND		50	20	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260D	35	J	50	20	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		1000	400	ug/L	1	
Ethanol	64-17-5	8260D	ND		5000	2600	ug/L	1	
Ethylbenzene	100-41-4	8260D	1100		50	20	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		50	20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	980		50	20	ug/L	1	
Naphthalene	91-20-3	8260D	340		50	20	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260D	310	J	1000	20	ug/L	1	
Toluene	108-88-3	8260D	6200		50	20	ug/L	1	
Xylenes (total)	1330-20-7	8260D	6300		50	20	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		99	70-130						
Toluene-d8		112	70-130						
Bromofluorobenzene		113	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	03/20/2020 0830	JJG	03/19/2020 0904	48323		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.021	0.021	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		70	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

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Description: 03439-MWDup

Matrix: Aqueous

Date Sampled: 03/10/2020 1709

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	50	03/17/2020 1708	BWS		48083		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		1000	400	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260D	98	J	500	21	ug/L	1	
Benzene	71-43-2	8260D	890		50	20	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260D	ND		250	100	ug/L	1	
1,2-Dichloroethane	107-06-2	8260D	ND		50	20	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260D	40	J	50	20	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		1000	400	ug/L	1	
Ethanol	64-17-5	8260D	ND		5000	2600	ug/L	1	
Ethylbenzene	100-41-4	8260D	1200		50	20	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		50	20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	1000		50	20	ug/L	1	
Naphthalene	91-20-3	8260D	320		50	20	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260D	330	J	1000	20	ug/L	1	
Toluene	108-88-3	8260D	6700		50	20	ug/L	1	
Xylenes (total)	1330-20-7	8260D	6600		50	20	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		96	70-130						
Toluene-d8		112	70-130						
Bromofluorobenzene		110	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	03/20/2020 0841	JJG	03/19/2020 0904	48323		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		72	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-MW02

Matrix: Aqueous

Date Sampled: 03/10/2020 1034

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	03/17/2020 1150	BWS		48083

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
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		115	70-130
Bromofluorobenzene		112	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 0851	JJG	03/19/2020 0904	48323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		81	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-MW03

Matrix: Aqueous

Date Sampled: 03/10/2020 1059

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	03/17/2020 1212	BWS		48083

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
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		112	70-130
Bromofluorobenzene		107	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 0902	JJG	03/19/2020 0904	48323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		92	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-MW04

Matrix: Aqueous

Date Sampled: 03/10/2020 1206

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	03/17/2020 1235	BWS		48083

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
Benzene	71-43-2	8260D	4.6		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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
Ethylbenzene	100-41-4	8260D	11		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.62	J	1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	4.0		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	5.7		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	58		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		112	70-130
Bromofluorobenzene		111	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 0913	JJG	03/19/2020 0904	48323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		81	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-MW06

Matrix: Aqueous

Date Sampled: 03/11/2020 0851

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	200	03/17/2020 1731	BWS		48083

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	200	J	2000	84	ug/L	1
Benzene	71-43-2	8260D	3500		200	80	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		1000	400	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		200	80	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		200	80	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		4000	1600	ug/L	1
Ethanol	64-17-5	8260D	ND		20000	10000	ug/L	1
Ethylbenzene	100-41-4	8260D	2300		200	80	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	1400		200	80	ug/L	1
Naphthalene	91-20-3	8260D	580		200	80	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	120	J	4000	80	ug/L	1
Toluene	108-88-3	8260D	23000		200	80	ug/L	1
Xylenes (total)	1330-20-7	8260D	14000		200	80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		112	70-130
Bromofluorobenzene		111	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 0924	JJG	03/19/2020 0904	48323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.029	P	0.021	0.021	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		98	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-MW06Dup

Matrix: Aqueous

Date Sampled: 03/11/2020 0853

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	200	03/17/2020 1754	BWS		48083		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		4000	1600	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260D	170	J	2000	84	ug/L	1	
Benzene	71-43-2	8260D	3400		200	80	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260D	ND		1000	400	ug/L	1	
1,2-Dichloroethane	107-06-2	8260D	ND		200	80	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260D	ND		200	80	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		4000	1600	ug/L	1	
Ethanol	64-17-5	8260D	ND		20000	10000	ug/L	1	
Ethylbenzene	100-41-4	8260D	2300		200	80	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		200	80	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	1300		200	80	ug/L	1	
Naphthalene	91-20-3	8260D	540		200	80	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260D	84	J	4000	80	ug/L	1	
Toluene	108-88-3	8260D	22000		200	80	ug/L	1	
Xylenes (total)	1330-20-7	8260D	14000		200	80	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		100	70-130						
Toluene-d8		112	70-130						
Bromofluorobenzene		113	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
2	8011	8011	1	03/24/2020 0940	JJG	03/23/2020 0953	48653		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	2	
Surrogate	Q	Run 2 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		94	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-MW08

Matrix: Aqueous

Date Sampled: 03/12/2020 0900

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	5030B	8260D	200	03/17/2020 1817	BWS		48083	
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		2000	84	ug/L	1
Benzene	71-43-2	8260D	2100		200	80	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		1000	400	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		200	80	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		200	80	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		4000	1600	ug/L	1
Ethanol	64-17-5	8260D	ND		20000	10000	ug/L	1
Ethylbenzene	100-41-4	8260D	2100		200	80	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	250		200	80	ug/L	1
Naphthalene	91-20-3	8260D	420		200	80	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		4000	80	ug/L	1
Toluene	108-88-3	8260D	14000		200	80	ug/L	1
Xylenes (total)	1330-20-7	8260D	12000		200	80	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
1,2-Dichloroethane-d4		100	70-130					
Toluene-d8		113	70-130					
Bromofluorobenzene		111	70-130					

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	8011	8011	1	03/20/2020 0945	JJG	03/19/2020 0904	48323	
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
1,1,1,2-Tetrachloroethane		97	57-137					

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-MW09

Matrix: Aqueous

Date Sampled: 03/10/2020 1333

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	03/17/2020 1257	BWS		48083

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
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Toluene-d8		116	70-130
Bromofluorobenzene		112	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 0956	JJG	03/19/2020 0904	48323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.021	0.021	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		85	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-MW10

Matrix: Aqueous

Date Sampled: 03/10/2020 1631

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	03/17/2020 1320	BWS		48083

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
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		114	70-130
Bromofluorobenzene		107	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 1006	JJG	03/19/2020 0904	48323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		87	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-MW11

Matrix: Aqueous

Date Sampled: 03/11/2020 1116

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	03/17/2020 1343	BWS		48083

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
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		116	70-130
Bromofluorobenzene		110	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 1017	JJG	03/19/2020 0904	48323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		78	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	03/17/2020 1405	BWS		48083

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
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		117	70-130
Bromofluorobenzene		114	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 1028	JJG	03/19/2020 0904	48323

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		84	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	03/17/2020 1428	BWS		48083

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
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		116	70-130
Bromofluorobenzene		112	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 0216	JJG	03/19/2020 0910	48324

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		86	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

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Description: 03439-MW14

Matrix: Aqueous

Date Sampled: 03/10/2020 1400

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	10	03/17/2020 1622	BWS		48083		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		200	80	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		100	4.2	ug/L	1	
Benzene	71-43-2	8260D	170		10	4.0	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260D	ND		50	20	ug/L	1	
1,2-Dichloroethane	107-06-2	8260D	ND		10	4.0	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260D	ND		10	4.0	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		200	80	ug/L	1	
Ethanol	64-17-5	8260D	ND		1000	520	ug/L	1	
Ethylbenzene	100-41-4	8260D	410		10	4.0	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		10	4.0	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	28		10	4.0	ug/L	1	
Naphthalene	91-20-3	8260D	140		10	4.0	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		200	4.0	ug/L	1	
Toluene	108-88-3	8260D	470		10	4.0	ug/L	1	
Xylenes (total)	1330-20-7	8260D	2200		10	4.0	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		97	70-130						
Toluene-d8		114	70-130						
Bromofluorobenzene		112	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	03/20/2020 0238	JJG	03/19/2020 0910	48324		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		88	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

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Description: 03439-MW15

Matrix: Aqueous

Date Sampled: 03/11/2020 1050

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	03/17/2020 1451	BWS		48083

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
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Toluene-d8		114	70-130
Bromofluorobenzene		114	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 0259	JJG	03/19/2020 0910	48324

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		88	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

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Description: 03439-DMW01

Matrix: Aqueous

Date Sampled: 03/10/2020 0904

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	1	03/17/2020 1513	BWS		48083		
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	
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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	
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1	
Toluene	108-88-3	8260D	1.3		1.0	0.40	ug/L	1	
Xylenes (total)	1330-20-7	8260D	0.72	J	1.0	0.40	ug/L	1	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		115	70-130
Bromofluorobenzene		116	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	03/20/2020 0310	JJG	03/19/2020 0910	48324		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		80	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-DMW02

Matrix: Aqueous

Date Sampled: 03/11/2020 1249

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	03/17/2020 1536	BWS		48083

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
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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
Ethylbenzene	100-41-4	8260D	0.85	J	1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	4.1		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	4.7		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		114	70-130
Bromofluorobenzene		109	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 0321	JJG	03/19/2020 0910	48324

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		91	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-DMW04

Matrix: Aqueous

Date Sampled: 03/10/2020 0942

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	1	03/17/2020 1559	BWS		48083		
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	
Benzene	71-43-2	8260D	3.4		1.0	0.40	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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	
Ethylbenzene	100-41-4	8260D	10		1.0	0.40	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260D	4.4		1.0	0.40	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1	
Toluene	108-88-3	8260D	50		1.0	0.40	ug/L	1	
Xylenes (total)	1330-20-7	8260D	59		1.0	0.40	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		98	70-130						
Toluene-d8		113	70-130						
Bromofluorobenzene		112	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	03/20/2020 0331	JJG	03/19/2020 0910	48324		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		82	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW01

Matrix: Aqueous

Date Sampled: 03/11/2020 1129

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	100	03/17/2020 1646	BWS		48080
2	5030B	8260D	100	03/18/2020 0808	STM		48157

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	140	J	1000	42	ug/L	1
Benzene	71-43-2	8260D	1100		100	40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	53	J	100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		2000	800	ug/L	1
Ethanol	64-17-5	8260D	ND		10000	5200	ug/L	1
Ethylbenzene	100-41-4	8260D	700		100	40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	940		100	40	ug/L	1
Naphthalene	91-20-3	8260D	68	J	100	40	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260D	140	J	2000	40	ug/L	1
Toluene	108-88-3	8260D	5200		100	40	ug/L	1
Xylenes (total)	1330-20-7	8260D	4800		100	40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130		102	70-130
Toluene-d8		92	70-130		104	70-130
Bromofluorobenzene		101	70-130		103	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 0342	JJG	03/19/2020 0910	48324

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	0.026	P	0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		77	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW02

Matrix: Aqueous

Date Sampled: 03/11/2020 1159

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	500	03/17/2020 1853	BWS		48080		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		10000	4000	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260D	1200	J	5000	210	ug/L	1	
Benzene	71-43-2	8260D	8500		500	200	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260D	ND		2500	1000	ug/L	1	
1,2-Dichloroethane	107-06-2	8260D	ND		500	200	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260D	540		500	200	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		10000	4000	ug/L	1	
Ethanol	64-17-5	8260D	ND		50000	26000	ug/L	1	
Ethylbenzene	100-41-4	8260D	2800		500	200	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		500	200	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	12000		500	200	ug/L	1	
Naphthalene	91-20-3	8260D	510		500	200	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260D	2100	J	10000	200	ug/L	1	
Toluene	108-88-3	8260D	36000		500	200	ug/L	1	
Xylenes (total)	1330-20-7	8260D	15000		500	200	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		101	70-130						
Toluene-d8		105	70-130						
Bromofluorobenzene		102	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	03/20/2020 0353	JJG	03/19/2020 0910	48324		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	0.066	P	0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		69	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

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Description: 03439-RW03

Matrix: Aqueous

Date Sampled: 03/11/2020 1300

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	50	03/17/2020 1621	BWS		48080
2	5030B	8260D	50	03/18/2020 0717	STM		48157

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		1000	400	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	30	J	500	21	ug/L	1
Benzene	71-43-2	8260D	480		50	20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		250	100	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		50	20	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		50	20	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		1000	400	ug/L	1
Ethanol	64-17-5	8260D	ND		5000	2600	ug/L	1
Ethylbenzene	100-41-4	8260D	100		50	20	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		50	20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	220		50	20	ug/L	1
Naphthalene	91-20-3	8260D	81		50	20	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260D	42	J	1000	20	ug/L	1
Toluene	108-88-3	8260D	2500		50	20	ug/L	1
Xylenes (total)	1330-20-7	8260D	1900		50	20	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130		101	70-130
Toluene-d8		106	70-130		104	70-130
Bromofluorobenzene		103	70-130		102	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 0403	JJG	03/19/2020 0910	48324

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		89	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW04

Matrix: Aqueous

Date Sampled: 03/11/2020 1333

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	100	03/17/2020 1711	BWS		48080
2	5030B	8260D	100	03/18/2020 0834	STM		48157

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	110	J	1000	42	ug/L	1
Benzene	71-43-2	8260D	1200		100	40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	54	J	100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		2000	800	ug/L	1
Ethanol	64-17-5	8260D	ND		10000	5200	ug/L	1
Ethylbenzene	100-41-4	8260D	900		100	40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	860		100	40	ug/L	1
Naphthalene	91-20-3	8260D	250		100	40	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260D	160	J	2000	40	ug/L	1
Toluene	108-88-3	8260D	7600		100	40	ug/L	1
Xylenes (total)	1330-20-7	8260D	5400		100	40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130		101	70-130
Toluene-d8		106	70-130		103	70-130
Bromofluorobenzene		101	70-130		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 0414	JJG	03/19/2020 0910	48324

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		90	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW08

Matrix: Aqueous

Date Sampled: 03/11/2020 1314

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	200	03/17/2020 1827	BWS		48080		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		4000	1600	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		2000	84	ug/L	1	
Benzene	71-43-2	8260D	3100		200	80	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260D	ND		1000	400	ug/L	1	
1,2-Dichloroethane	107-06-2	8260D	ND		200	80	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260D	ND		200	80	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		4000	1600	ug/L	1	
Ethanol	64-17-5	8260D	ND		20000	10000	ug/L	1	
Ethylbenzene	100-41-4	8260D	2800		200	80	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		200	80	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	320		200	80	ug/L	1	
Naphthalene	91-20-3	8260D	480		200	80	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		4000	80	ug/L	1	
Toluene	108-88-3	8260D	20000		200	80	ug/L	1	
Xylenes (total)	1330-20-7	8260D	14000		200	80	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		101	70-130						
Toluene-d8		103	70-130						
Bromofluorobenzene		101	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	03/20/2020 0425	JJG	03/19/2020 0910	48324		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	0.020	P	0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		67	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW09

Matrix: Aqueous

Date Sampled: 03/11/2020 1338

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	100	03/17/2020 1736	BWS		48080

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		1000	42	ug/L	1
Benzene	71-43-2	8260D	1400		100	40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		2000	800	ug/L	1
Ethanol	64-17-5	8260D	ND		10000	5200	ug/L	1
Ethylbenzene	100-41-4	8260D	2000		100	40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	140		100	40	ug/L	1
Naphthalene	91-20-3	8260D	560		100	40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		2000	40	ug/L	1
Toluene	108-88-3	8260D	7900		100	40	ug/L	1
Xylenes (total)	1330-20-7	8260D	11000		100	40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		104	70-130
Bromofluorobenzene		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 0435	JJG	03/19/2020 0910	48324

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		82	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW10

Matrix: Aqueous

Date Sampled: 03/11/2020 1442

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	100	03/17/2020 1801	BWS		48080

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		2000	800	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	45	J	1000	42	ug/L	1
Benzene	71-43-2	8260D	1400		100	40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		500	200	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		100	40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		100	40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		2000	800	ug/L	1
Ethanol	64-17-5	8260D	ND		10000	5200	ug/L	1
Ethylbenzene	100-41-4	8260D	1400		100	40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		100	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	210		100	40	ug/L	1
Naphthalene	91-20-3	8260D	330		100	40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		2000	40	ug/L	1
Toluene	108-88-3	8260D	6600		100	40	ug/L	1
Xylenes (total)	1330-20-7	8260D	7900		100	40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		118	70-130
Bromofluorobenzene		102	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 0446	JJG	03/19/2020 0910	48324

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		95	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW11

Matrix: Aqueous

Date Sampled: 03/12/2020 1042

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	200	03/18/2020 0339	ALR1		48151

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		4000	1600	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	96	J	2000	84	ug/L	1
Benzene	71-43-2	8260D	2400		200	80	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		1000	400	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		200	80	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		200	80	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		4000	1600	ug/L	1
Ethanol	64-17-5	8260D	ND		20000	10000	ug/L	1
Ethylbenzene	100-41-4	8260D	2500		200	80	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		200	80	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	570		200	80	ug/L	1
Naphthalene	91-20-3	8260D	720		200	80	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		4000	80	ug/L	1
Toluene	108-88-3	8260D	15000		200	80	ug/L	1
Xylenes (total)	1330-20-7	8260D	16000		200	80	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Toluene-d8		114	70-130
Bromofluorobenzene		117	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 0457	JJG	03/19/2020 0910	48324

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		74	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW12

Matrix: Aqueous

Date Sampled: 03/12/2020 1016

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	50	03/18/2020 0231	ALR1		48151		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		1000	400	ug/L	1	
tert-Amyl methyl ether (TAME)	994-05-8	8260D	25	J	500	21	ug/L	1	
Benzene	71-43-2	8260D	790		50	20	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260D	ND		250	100	ug/L	1	
1,2-Dichloroethane	107-06-2	8260D	ND		50	20	ug/L	1	
Diisopropyl ether (IPE)	108-20-3	8260D	ND		50	20	ug/L	1	
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		1000	400	ug/L	1	
Ethanol	64-17-5	8260D	ND		5000	2600	ug/L	1	
Ethylbenzene	100-41-4	8260D	890		50	20	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		50	20	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	140		50	20	ug/L	1	
Naphthalene	91-20-3	8260D	180		50	20	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		1000	20	ug/L	1	
Toluene	108-88-3	8260D	3800		50	20	ug/L	1	
Xylenes (total)	1330-20-7	8260D	5000		50	20	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		103	70-130						
Toluene-d8		114	70-130						
Bromofluorobenzene		118	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	03/20/2020 0507	JJG	03/19/2020 0910	48324		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		96	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW13

Matrix: Aqueous

Date Sampled: 03/11/2020 1445

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	20	03/18/2020 0208	ALR1		48151

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	170	J	400	160	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	13	J	200	8.4	ug/L	1
Benzene	71-43-2	8260D	410		20	8.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		100	40	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		20	8.0	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		20	8.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		400	160	ug/L	1
Ethanol	64-17-5	8260D	ND		2000	1000	ug/L	1
Ethylbenzene	100-41-4	8260D	510		20	8.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		20	8.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	63		20	8.0	ug/L	1
Naphthalene	91-20-3	8260D	130		20	8.0	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		400	8.0	ug/L	1
Toluene	108-88-3	8260D	1900		20	8.0	ug/L	1
Xylenes (total)	1330-20-7	8260D	2900		20	8.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Toluene-d8		112	70-130
Bromofluorobenzene		115	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 0518	JJG	03/19/2020 0910	48324

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		81	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

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Description: 03439-RW16

Matrix: Aqueous

Date Sampled: 03/12/2020 1133

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	500	03/18/2020 0402	ALR1		48151

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		10000	4000	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		5000	210	ug/L	1
Benzene	71-43-2	8260D	2300		500	200	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		2500	1000	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		500	200	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	ND		500	200	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		10000	4000	ug/L	1
Ethanol	64-17-5	8260D	ND		50000	26000	ug/L	1
Ethylbenzene	100-41-4	8260D	4000		500	200	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		500	200	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		500	200	ug/L	1
Naphthalene	91-20-3	8260D	590		500	200	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		10000	200	ug/L	1
Toluene	108-88-3	8260D	35000		500	200	ug/L	1
Xylenes (total)	1330-20-7	8260D	21000		500	200	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Toluene-d8		115	70-130
Bromofluorobenzene		116	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 0529	JJG	03/19/2020 0910	48324

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		93	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-RW17

Matrix: Aqueous

Date Sampled: 03/12/2020 1205

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	03/17/2020 2223	ALR1		48151
2	5030B	8260D	50	03/19/2020 0454	STM		48296
3	5030B	8260D	100	03/20/2020 0655	STM		48461

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	700		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260D	11		10	0.42	ug/L	1
Benzene	71-43-2	8260D	1300		50	20	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	31		1.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260D	8.8		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
Ethylbenzene	100-41-4	8260D	1200		50	20	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	5.1		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	190		50	20	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260D	17	J	20	0.40	ug/L	1
Toluene	108-88-3	8260D	11000		100	40	ug/L	3
Xylenes (total)	1330-20-7	8260D	6100		50	20	ug/L	2

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits	Q	Run 3 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130		107	70-130		101	70-130
Toluene-d8		111	70-130		113	70-130		105	70-130
Bromofluorobenzene		111	70-130		117	70-130		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 0539	JJG	03/19/2020 0910	48324

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		75	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-CK-1

Matrix: Aqueous

Date Sampled: 03/12/2020 1325

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
2	5030B	8260D	1	03/18/2020 2252	STM		48296	
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	2
tert-Amyl methyl ether (TAME)	994-05-8	8260D	ND		10	0.42	ug/L	2
Benzene	71-43-2	8260D	5.3		1.0	0.40	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	2
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	ug/L	2
Diisopropyl ether (IPE)	108-20-3	8260D	ND		1.0	0.40	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		20	8.0	ug/L	2
Ethanol	64-17-5	8260D	ND		100	52	ug/L	2
Ethylbenzene	100-41-4	8260D	8.9		1.0	0.40	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	4.6		1.0	0.40	ug/L	2
Naphthalene	91-20-3	8260D	1.9		1.0	0.40	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	2
Toluene	108-88-3	8260D	22		1.0	0.40	ug/L	2
Xylenes (total)	1330-20-7	8260D	47		1.0	0.40	ug/L	2
Surrogate	Q	Run 2 % Recovery	Acceptance Limits					
1,2-Dichloroethane-d4		105	70-130					
Toluene-d8		113	70-130					
Bromofluorobenzene		115	70-130					

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	8011	8011	1	03/20/2020 0550	JJG	03/19/2020 0910	48324	
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
1,1,1,2-Tetrachloroethane		94	57-137					

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-CK-2

Matrix: Aqueous

Date Sampled: 03/12/2020 1320

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	1	03/17/2020 1440	BWS		48080		
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	
Benzene	71-43-2	8260D	4.3		1.0	0.40	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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	
Ethylbenzene	100-41-4	8260D	5.7		1.0	0.40	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	3.0		1.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260D	1.4		1.0	0.40	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260D	0.58	J	20	0.40	ug/L	1	
Toluene	108-88-3	8260D	13		1.0	0.40	ug/L	1	
Xylenes (total)	1330-20-7	8260D	29		1.0	0.40	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		102	70-130						
Toluene-d8		104	70-130						
Bromofluorobenzene		103	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	03/20/2020 0600	JJG	03/19/2020 0910	48324		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		90	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-CK-3

Matrix: Aqueous

Date Sampled: 03/12/2020 1315

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	03/17/2020 1505	BWS		48080

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
Benzene	71-43-2	8260D	4.1		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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
Ethylbenzene	100-41-4	8260D	5.4		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	3.1		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	1.4		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	0.59	J	20	0.40	ug/L	1
Toluene	108-88-3	8260D	13		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	27		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		104	70-130
Bromofluorobenzene		102	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 1905	JJG	03/19/2020 1520	48410

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		91	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-CK-4

Matrix: Aqueous

Date Sampled: 03/12/2020 1330

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	5030B	8260D	1	03/17/2020 1531	BWS		48080		
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	
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1	
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1	
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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	
Ethylbenzene	100-41-4	8260D	0.47	J	1.0	0.40	ug/L	1	
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1	
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	0.66	J	1.0	0.40	ug/L	1	
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1	
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1	
Toluene	108-88-3	8260D	0.65	J	1.0	0.40	ug/L	1	
Xylenes (total)	1330-20-7	8260D	2.4		1.0	0.40	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		101	70-130						
Toluene-d8		104	70-130						
Bromofluorobenzene		101	70-130						

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	8011	8011	1	03/20/2020 1927	JJG	03/19/2020 1520	48410		
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run	
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1	
Surrogate	Q	Run 1 % Recovery	Acceptance Limits						
1,1,1,2-Tetrachloroethane		95	57-137						

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-Seeep-1

Matrix: Aqueous

Date Sampled: 03/12/2020 1350

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260D	50	03/18/2020 0742	STM		48157

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260D	ND		1000	400	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260D	33	J	500	21	ug/L	2
Benzene	71-43-2	8260D	370		50	20	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260D	ND		250	100	ug/L	2
1,2-Dichloroethane	107-06-2	8260D	ND		50	20	ug/L	2
Diisopropyl ether (IPE)	108-20-3	8260D	ND		50	20	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260D	ND		1000	400	ug/L	2
Ethanol	64-17-5	8260D	ND		5000	2600	ug/L	2
Ethylbenzene	100-41-4	8260D	65		50	20	ug/L	2
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		50	20	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	320		50	20	ug/L	2
Naphthalene	91-20-3	8260D	120		50	20	ug/L	2
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		1000	20	ug/L	2
Toluene	108-88-3	8260D	1100		50	20	ug/L	2
Xylenes (total)	1330-20-7	8260D	3400		50	20	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		104	70-130
Bromofluorobenzene		103	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 1948	JJG	03/19/2020 1520	48410

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.019	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		88	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

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Description: 03439-FB-1

Matrix: Aqueous

Date Sampled: 03/10/2020 0800

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	03/17/2020 1300	BWS		48080

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
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	1.5	J	20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		106	70-130
Bromofluorobenzene		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 1959	JJG	03/19/2020 1520	48410

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		94	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

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Description: 03439-FB-2

Matrix: Aqueous

Date Sampled: 03/11/2020 0800

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	5030B	8260D	1	03/17/2020 1325	BWS		48080	
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
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	1.7	J	20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		107	70-130
Bromofluorobenzene		102	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	8011	8011	1	03/20/2020 2009	JJG	03/19/2020 1520	48410	
Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits					
1,1,1,2-Tetrachloroethane		93	57-137					

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-FB-3

Matrix: Aqueous

Date Sampled: 03/12/2020 0800

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	03/17/2020 1350	BWS		48080

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
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		106	70-130
Bromofluorobenzene		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	03/20/2020 2020	JJG	03/19/2020 1520	48410

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.020	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		95	57-137

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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Description: 03439-TB-1

Matrix: Aqueous

Date Sampled: 03/12/2020

Date Received: 03/13/2020

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	03/17/2020 1415	BWS		48080

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
Benzene	71-43-2	8260D	ND		1.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260D	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	0.40	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
Ethylbenzene	100-41-4	8260D	ND		1.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260D	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		1.0	0.40	ug/L	1
Naphthalene	91-20-3	8260D	ND		1.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260D	ND		20	0.40	ug/L	1
Toluene	108-88-3	8260D	ND		1.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		1.0	0.40	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		105	70-130
Bromofluorobenzene		100	70-130

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

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

H = Out of holding time

W = Reported on wet weight basis

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QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: VQ48080-001

Matrix: Aqueous

Batch: 48080

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	03/17/2020 1041
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	03/17/2020 1041
Benzene	ND		1	1.0	0.40	ug/L	03/17/2020 1041
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	03/17/2020 1041
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	03/17/2020 1041
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	03/17/2020 1041
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	03/17/2020 1041
Ethanol	ND		1	100	52	ug/L	03/17/2020 1041
Ethylbenzene	ND		1	1.0	0.40	ug/L	03/17/2020 1041
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	03/17/2020 1041
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	03/17/2020 1041
Naphthalene	ND		1	1.0	0.40	ug/L	03/17/2020 1041
tert-butyl alcohol (TBA)	ND		1	20	0.40	ug/L	03/17/2020 1041
Toluene	ND		1	1.0	0.40	ug/L	03/17/2020 1041
Xylenes (total)	ND		1	1.0	0.40	ug/L	03/17/2020 1041
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		100	70-130				
Toluene-d8		106	70-130				
Bromofluorobenzene		101	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: VQ48080-002

Matrix: Aqueous

Batch: 48080

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	110	70-130	03/17/2020 0915
tert-Amyl methyl ether (TAME)	50	52		1	104	70-130	03/17/2020 0915
Benzene	50	50		1	100	70-130	03/17/2020 0915
tert-Butyl formate (TBF)	250	250		1	101	70-130	03/17/2020 0915
1,2-Dichloroethane	50	51		1	102	70-130	03/17/2020 0915
Diisopropyl ether (IPE)	50	52		1	103	70-130	03/17/2020 0915
3,3-Dimethyl-1-butanol	1000	1100		1	110	70-130	03/17/2020 0915
Ethanol	5000	5500		1	110	70-130	03/17/2020 0915
Ethylbenzene	50	51		1	101	70-130	03/17/2020 0915
Ethyl-tert-butyl ether (ETBE)	50	52		1	104	70-130	03/17/2020 0915
Methyl tertiary butyl ether (MTBE)	50	51		1	103	70-130	03/17/2020 0915
Naphthalene	50	52		1	104	70-130	03/17/2020 0915
tert-butyl alcohol (TBA)	1000	1100		1	110	70-130	03/17/2020 0915
Toluene	50	50		1	100	70-130	03/17/2020 0915
Xylenes (total)	100	100		1	100	70-130	03/17/2020 0915
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		100	70-130				
Toluene-d8		99	70-130				
Bromofluorobenzene		99	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MS

Sample ID: VC13072-021MS

Matrix: Aqueous

Batch: 48080

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	50000	48000		50	96	70-130	03/17/2020 1918
tert-Amyl methyl ether (TAME)	30	2500	2400		50	95	70-130	03/17/2020 1918
Benzene	480	2500	2900		50	98	70-130	03/17/2020 1918
tert-Butyl formate (TBF)	ND	13000	9200		50	73	70-130	03/17/2020 1918
1,2-Dichloroethane	ND	2500	2500		50	99	70-130	03/17/2020 1918
Diisopropyl ether (IPE)	ND	2500	2600		50	104	70-130	03/17/2020 1918
3,3-Dimethyl-1-butanol	ND	50000	52000		50	104	70-130	03/17/2020 1918
Ethanol	ND	250000	240000		50	95	70-130	03/17/2020 1918
Ethylbenzene	100	2500	2600		50	98	70-130	03/17/2020 1918
Ethyl-tert-butyl ether (ETBE)	ND	2500	2400		50	98	70-130	03/17/2020 1918
Methyl tertiary butyl ether (MTBE)	220	2500	2500		50	92	70-130	03/17/2020 1918
Naphthalene	110	2500	2400		50	92	70-130	03/17/2020 1918
tert-butyl alcohol (TBA)	42	50000	50000		50	99	70-130	03/17/2020 1918
Toluene	2500	2500	4900		50	95	70-130	03/17/2020 1918
Xylenes (total)	1900	5000	6700		50	95	70-130	03/17/2020 1918
Surrogate	Q	% Rec	Acceptance Limit					
1,2-Dichloroethane-d4		99	70-130					
Toluene-d8		104	70-130					
Bromofluorobenzene		100	70-130					

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MSD

Sample ID: VC13072-021MD

Matrix: Aqueous

Batch: 48080

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	50000	49000		50	98	2.0	70-130	20	03/17/2020 1943
tert-Amyl methyl ether (TAME)	30	2500	2500		50	100	5.2	70-130	20	03/17/2020 1943
Benzene	480	2500	3000		50	102	3.2	70-130	20	03/17/2020 1943
tert-Butyl formate (TBF)	ND	13000	8300	N	50	67	9.7	70-130	20	03/17/2020 1943
1,2-Dichloroethane	ND	2500	2500		50	100	0.59	70-130	20	03/17/2020 1943
Diisopropyl ether (IPE)	ND	2500	2600		50	106	1.8	70-130	20	03/17/2020 1943
3,3-Dimethyl-1-butanol	ND	50000	53000		50	105	1.5	70-130	20	03/17/2020 1943
Ethanol	ND	250000	240000		50	95	0.72	70-130	20	03/17/2020 1943
Ethylbenzene	100	2500	2700		50	103	4.8	70-130	20	03/17/2020 1943
Ethyl-tert-butyl ether (ETBE)	ND	2500	2500		50	102	4.4	70-130	20	03/17/2020 1943
Methyl tertiary butyl ether (MTBE)	220	2500	2600		50	95	3.5	70-130	20	03/17/2020 1943
Naphthalene	110	2500	2600		50	99	7.0	70-130	20	03/17/2020 1943
tert-butyl alcohol (TBA)	42	50000	51000		50	102	2.5	70-130	20	03/17/2020 1943
Toluene	2500	2500	5000		50	101	3.0	70-130	20	03/17/2020 1943
Xylenes (total)	1900	5000	7000		50	102	5.5	70-130	20	03/17/2020 1943
Surrogate	Q	% Rec	Acceptance Limit							
1,2-Dichloroethane-d4		100	70-130							
Toluene-d8		104	70-130							
Bromofluorobenzene		103	70-130							

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: VQ48083-001

Matrix: Aqueous

Batch: 48083

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	03/17/2020 1030
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	03/17/2020 1030
Benzene	ND		1	1.0	0.40	ug/L	03/17/2020 1030
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	03/17/2020 1030
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	03/17/2020 1030
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	03/17/2020 1030
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	03/17/2020 1030
Ethanol	ND		1	100	52	ug/L	03/17/2020 1030
Ethylbenzene	ND		1	1.0	0.40	ug/L	03/17/2020 1030
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	03/17/2020 1030
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	03/17/2020 1030
Naphthalene	ND		1	1.0	0.40	ug/L	03/17/2020 1030
tert-butyl alcohol (TBA)	ND		1	20	0.40	ug/L	03/17/2020 1030
Toluene	ND		1	1.0	0.40	ug/L	03/17/2020 1030
Xylenes (total)	ND		1	1.0	0.40	ug/L	03/17/2020 1030

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		103	70-130
Toluene-d8		115	70-130
Bromofluorobenzene		112	70-130

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: VQ48083-002

Matrix: Aqueous

Batch: 48083

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	970		1	97	70-130	03/17/2020 0908
tert-Amyl methyl ether (TAME)	50	56		1	111	70-130	03/17/2020 0908
Benzene	50	53		1	106	70-130	03/17/2020 0908
tert-Butyl formate (TBF)	250	270		1	107	70-130	03/17/2020 0908
1,2-Dichloroethane	50	52		1	104	70-130	03/17/2020 0908
Diisopropyl ether (IPE)	50	55		1	109	70-130	03/17/2020 0908
3,3-Dimethyl-1-butanol	1000	1000		1	101	70-130	03/17/2020 0908
Ethanol	5000	4800		1	97	70-130	03/17/2020 0908
Ethylbenzene	50	53		1	106	70-130	03/17/2020 0908
Ethyl-tert-butyl ether (ETBE)	50	53		1	107	70-130	03/17/2020 0908
Methyl tertiary butyl ether (MTBE)	50	52		1	104	70-130	03/17/2020 0908
Naphthalene	50	54		1	107	70-130	03/17/2020 0908
tert-butyl alcohol (TBA)	1000	950		1	95	70-130	03/17/2020 0908
Toluene	50	55		1	109	70-130	03/17/2020 0908
Xylenes (total)	100	110		1	107	70-130	03/17/2020 0908
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		103	70-130				
Toluene-d8		108	70-130				
Bromofluorobenzene		109	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MS

Sample ID: VC13072-014MS

Matrix: Aqueous

Batch: 48083

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	10000	9700		10	96	70-130	03/17/2020 1839
tert-Amyl methyl ether (TAME)	ND	500	510		10	103	70-130	03/17/2020 1839
Benzene	170	500	680		10	103	70-130	03/17/2020 1839
tert-Butyl formate (TBF)	ND	2500	910	N	10	36	70-130	03/17/2020 1839
1,2-Dichloroethane	ND	500	490		10	99	70-130	03/17/2020 1839
Diisopropyl ether (IPE)	ND	500	570		10	113	70-130	03/17/2020 1839
3,3-Dimethyl-1-butanol	ND	10000	10000		10	102	70-130	03/17/2020 1839
Ethanol	ND	50000	50000		10	100	70-130	03/17/2020 1839
Ethylbenzene	410	500	940		10	105	70-130	03/17/2020 1839
Ethyl-tert-butyl ether (ETBE)	ND	500	530		10	106	70-130	03/17/2020 1839
Methyl tertiary butyl ether (MTBE)	28	500	530		10	99	70-130	03/17/2020 1839
Naphthalene	140	500	650		10	101	70-130	03/17/2020 1839
tert-butyl alcohol (TBA)	ND	10000	11000		10	108	70-130	03/17/2020 1839
Toluene	470	500	1000		10	106	70-130	03/17/2020 1839
Xylenes (total)	2200	1000	3200		10	100	70-130	03/17/2020 1839
Surrogate	Q	% Rec	Acceptance Limit					
1,2-Dichloroethane-d4		99	70-130					
Toluene-d8		112	70-130					
Bromofluorobenzene		113	70-130					

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MSD

Sample ID: VC13072-014MD

Matrix: Aqueous

Batch: 48083

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	10000	9600		10	95	1.4	70-130	20	03/17/2020 1902
tert-Amyl methyl ether (TAME)	ND	500	510		10	102	0.97	70-130	20	03/17/2020 1902
Benzene	170	500	680		10	102	0.84	70-130	20	03/17/2020 1902
tert-Butyl formate (TBF)	ND	2500	860	N	10	34	6.0	70-130	20	03/17/2020 1902
1,2-Dichloroethane	ND	500	490		10	97	1.7	70-130	20	03/17/2020 1902
Diisopropyl ether (IPE)	ND	500	560		10	112	1.3	70-130	20	03/17/2020 1902
3,3-Dimethyl-1-butanol	ND	10000	10000		10	102	0.39	70-130	20	03/17/2020 1902
Ethanol	ND	50000	47000		10	94	6.1	70-130	20	03/17/2020 1902
Ethylbenzene	410	500	950		10	107	1.2	70-130	20	03/17/2020 1902
Ethyl-tert-butyl ether (ETBE)	ND	500	510		10	103	3.6	70-130	20	03/17/2020 1902
Methyl tertiary butyl ether (MTBE)	28	500	500		10	95	4.8	70-130	20	03/17/2020 1902
Naphthalene	140	500	650		10	101	0.12	70-130	20	03/17/2020 1902
tert-butyl alcohol (TBA)	ND	10000	11000		10	106	2.0	70-130	20	03/17/2020 1902
Toluene	470	500	1000		10	109	1.3	70-130	20	03/17/2020 1902
Xylenes (total)	2200	1000	3300		10	106	1.9	70-130	20	03/17/2020 1902
Surrogate	Q	% Rec	Acceptance Limit							
1,2-Dichloroethane-d4		97	70-130							
Toluene-d8		113	70-130							
Bromofluorobenzene		114	70-130							

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: VQ48151-001

Matrix: Aqueous

Batch: 48151

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	03/17/2020 2057
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	03/17/2020 2057
Benzene	ND		1	1.0	0.40	ug/L	03/17/2020 2057
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	03/17/2020 2057
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	03/17/2020 2057
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	03/17/2020 2057
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	03/17/2020 2057
Ethanol	ND		1	100	52	ug/L	03/17/2020 2057
Ethylbenzene	ND		1	1.0	0.40	ug/L	03/17/2020 2057
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	03/17/2020 2057
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	03/17/2020 2057
Naphthalene	ND		1	1.0	0.40	ug/L	03/17/2020 2057
tert-butyl alcohol (TBA)	ND		1	20	0.40	ug/L	03/17/2020 2057
Toluene	ND		1	1.0	0.40	ug/L	03/17/2020 2057
Xylenes (total)	ND		1	1.0	0.40	ug/L	03/17/2020 2057
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		106	70-130				
Toluene-d8		118	70-130				
Bromofluorobenzene		118	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: VQ48151-002

Matrix: Aqueous

Batch: 48151

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	112	70-130	03/17/2020 1959
tert-Amyl methyl ether (TAME)	50	58		1	115	70-130	03/17/2020 1959
Benzene	50	55		1	111	70-130	03/17/2020 1959
tert-Butyl formate (TBF)	250	280		1	112	70-130	03/17/2020 1959
1,2-Dichloroethane	50	55		1	111	70-130	03/17/2020 1959
Diisopropyl ether (IPE)	50	58		1	116	70-130	03/17/2020 1959
3,3-Dimethyl-1-butanol	1000	1200		1	116	70-130	03/17/2020 1959
Ethanol	5000	5700		1	113	70-130	03/17/2020 1959
Ethylbenzene	50	56		1	112	70-130	03/17/2020 1959
Ethyl-tert-butyl ether (ETBE)	50	56		1	111	70-130	03/17/2020 1959
Methyl tertiary butyl ether (MTBE)	50	53		1	105	70-130	03/17/2020 1959
Naphthalene	50	58		1	115	70-130	03/17/2020 1959
tert-butyl alcohol (TBA)	1000	1100		1	110	70-130	03/17/2020 1959
Toluene	50	59		1	118	70-130	03/17/2020 1959
Xylenes (total)	100	110		1	113	70-130	03/17/2020 1959
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		108	70-130				
Toluene-d8		115	70-130				
Bromofluorobenzene		117	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MS

Sample ID: VC13072-028MS

Matrix: Aqueous

Batch: 48151

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	170	20000	17000		20	86	70-130	03/18/2020 0509
tert-Amyl methyl ether (TAME)	13	1000	950		20	94	70-130	03/18/2020 0509
Benzene	410	1000	1300		20	94	70-130	03/18/2020 0509
tert-Butyl formate (TBF)	ND	5000	2600	N	20	53	70-130	03/18/2020 0509
1,2-Dichloroethane	ND	1000	930		20	93	70-130	03/18/2020 0509
Diisopropyl ether (IPE)	ND	1000	1000		20	101	70-130	03/18/2020 0509
3,3-Dimethyl-1-butanol	ND	20000	18000		20	91	70-130	03/18/2020 0509
Ethanol	ND	100000	96000		20	96	70-130	03/18/2020 0509
Ethylbenzene	510	1000	1400		20	93	70-130	03/18/2020 0509
Ethyl-tert-butyl ether (ETBE)	ND	1000	980		20	98	70-130	03/18/2020 0509
Methyl tertiary butyl ether (MTBE)	63	1000	990		20	92	70-130	03/18/2020 0509
Naphthalene	130	1000	1100		20	92	70-130	03/18/2020 0509
tert-butyl alcohol (TBA)	ND	20000	19000		20	96	70-130	03/18/2020 0509
Toluene	1900	1000	2800		20	95	70-130	03/18/2020 0509
Xylenes (total)	2900	2000	4800		20	93	70-130	03/18/2020 0509
Surrogate	Q	% Rec	Acceptance Limit					
1,2-Dichloroethane-d4		104	70-130					
Toluene-d8		112	70-130					
Bromofluorobenzene		115	70-130					

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MSD

Sample ID: VC13072-028MD

Matrix: Aqueous

Batch: 48151

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	170	20000	20000		20	98	12	70-130	20	03/18/2020 0532
tert-Amyl methyl ether (TAME)	13	1000	1100		20	105	11	70-130	20	03/18/2020 0532
Benzene	410	1000	1400		20	103	6.6	70-130	20	03/18/2020 0532
tert-Butyl formate (TBF)	ND	5000	3100	N	20	63	18	70-130	20	03/18/2020 0532
1,2-Dichloroethane	ND	1000	1000		20	103	9.3	70-130	20	03/18/2020 0532
Diisopropyl ether (IPE)	ND	1000	1100		20	112	10	70-130	20	03/18/2020 0532
3,3-Dimethyl-1-butanol	ND	20000	21000		20	103	12	70-130	20	03/18/2020 0532
Ethanol	ND	100000	100000		20	101	5.6	70-130	20	03/18/2020 0532
Ethylbenzene	510	1000	1500		20	104	7.5	70-130	20	03/18/2020 0532
Ethyl-tert-butyl ether (ETBE)	ND	1000	1100		20	109	11	70-130	20	03/18/2020 0532
Methyl tertiary butyl ether (MTBE)	63	1000	1100		20	102	9.1	70-130	20	03/18/2020 0532
Naphthalene	130	1000	1100		20	101	8.3	70-130	20	03/18/2020 0532
tert-butyl alcohol (TBA)	ND	20000	21000		20	107	11	70-130	20	03/18/2020 0532
Toluene	1900	1000	3000		20	111	5.5	70-130	20	03/18/2020 0532
Xylenes (total)	2900	2000	5100		20	105	5.2	70-130	20	03/18/2020 0532
Surrogate	Q	% Rec	Acceptance Limit							
1,2-Dichloroethane-d4		103	70-130							
Toluene-d8		112	70-130							
Bromofluorobenzene		116	70-130							

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: VQ48157-001

Matrix: Aqueous

Batch: 48157

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	03/17/2020 2321
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	03/17/2020 2321
Benzene	ND		1	1.0	0.40	ug/L	03/17/2020 2321
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	03/17/2020 2321
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	03/17/2020 2321
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	03/17/2020 2321
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	03/17/2020 2321
Ethanol	ND		1	100	52	ug/L	03/17/2020 2321
Ethylbenzene	ND		1	1.0	0.40	ug/L	03/17/2020 2321
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	03/17/2020 2321
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	03/17/2020 2321
Naphthalene	ND		1	1.0	0.40	ug/L	03/17/2020 2321
tert-butyl alcohol (TBA)	ND		1	20	0.40	ug/L	03/17/2020 2321
Toluene	ND		1	1.0	0.40	ug/L	03/17/2020 2321
Xylenes (total)	ND		1	1.0	0.40	ug/L	03/17/2020 2321
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		99	70-130				
Toluene-d8		106	70-130				
Bromofluorobenzene		104	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: VQ48157-002

Matrix: Aqueous

Batch: 48157

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	106	70-130	03/17/2020 2219
tert-Amyl methyl ether (TAME)	50	50		1	100	70-130	03/17/2020 2219
Benzene	50	51		1	103	70-130	03/17/2020 2219
tert-Butyl formate (TBF)	250	230		1	93	70-130	03/17/2020 2219
1,2-Dichloroethane	50	52		1	104	70-130	03/17/2020 2219
Diisopropyl ether (IPE)	50	51		1	102	70-130	03/17/2020 2219
3,3-Dimethyl-1-butanol	1000	1100		1	111	70-130	03/17/2020 2219
Ethanol	5000	5200		1	103	70-130	03/17/2020 2219
Ethylbenzene	50	53		1	107	70-130	03/17/2020 2219
Ethyl-tert-butyl ether (ETBE)	50	49		1	98	70-130	03/17/2020 2219
Methyl tertiary butyl ether (MTBE)	50	45		1	91	70-130	03/17/2020 2219
Naphthalene	50	51		1	102	70-130	03/17/2020 2219
tert-butyl alcohol (TBA)	1000	1000		1	102	70-130	03/17/2020 2219
Toluene	50	52		1	105	70-130	03/17/2020 2219
Xylenes (total)	100	100		1	105	70-130	03/17/2020 2219
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		103	70-130				
Toluene-d8		104	70-130				
Bromofluorobenzene		104	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: VQ48296-001

Matrix: Aqueous

Batch: 48296

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	8.0	ug/L	03/18/2020 2116
tert-Amyl methyl ether (TAME)	ND		1	10	0.42	ug/L	03/18/2020 2116
Benzene	ND		1	1.0	0.40	ug/L	03/18/2020 2116
tert-Butyl formate (TBF)	ND		1	5.0	2.0	ug/L	03/18/2020 2116
1,2-Dichloroethane	ND		1	1.0	0.40	ug/L	03/18/2020 2116
Diisopropyl ether (IPE)	ND		1	1.0	0.40	ug/L	03/18/2020 2116
3,3-Dimethyl-1-butanol	ND		1	20	8.0	ug/L	03/18/2020 2116
Ethanol	ND		1	100	52	ug/L	03/18/2020 2116
Ethylbenzene	ND		1	1.0	0.40	ug/L	03/18/2020 2116
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.40	ug/L	03/18/2020 2116
Methyl tertiary butyl ether (MTBE)	ND		1	1.0	0.40	ug/L	03/18/2020 2116
Naphthalene	ND		1	1.0	0.40	ug/L	03/18/2020 2116
tert-butyl alcohol (TBA)	ND		1	20	0.40	ug/L	03/18/2020 2116
Toluene	ND		1	1.0	0.40	ug/L	03/18/2020 2116
Xylenes (total)	ND		1	1.0	0.40	ug/L	03/18/2020 2116
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		108	70-130				
Toluene-d8		116	70-130				
Bromofluorobenzene		120	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: VQ48296-002

Matrix: Aqueous

Batch: 48296

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100		1	108	70-130	03/18/2020 2017
tert-Amyl methyl ether (TAME)	50	58		1	116	70-130	03/18/2020 2017
Benzene	50	55		1	111	70-130	03/18/2020 2017
tert-Butyl formate (TBF)	250	250		1	99	70-130	03/18/2020 2017
1,2-Dichloroethane	50	58		1	117	70-130	03/18/2020 2017
Diisopropyl ether (IPE)	50	58		1	115	70-130	03/18/2020 2017
3,3-Dimethyl-1-butanol	1000	1100		1	115	70-130	03/18/2020 2017
Ethanol	5000	5400		1	109	70-130	03/18/2020 2017
Ethylbenzene	50	56		1	113	70-130	03/18/2020 2017
Ethyl-tert-butyl ether (ETBE)	50	55		1	111	70-130	03/18/2020 2017
Methyl tertiary butyl ether (MTBE)	50	53		1	106	70-130	03/18/2020 2017
Naphthalene	50	57		1	115	70-130	03/18/2020 2017
tert-butyl alcohol (TBA)	1000	1100		1	109	70-130	03/18/2020 2017
Toluene	50	57		1	114	70-130	03/18/2020 2017
Xylenes (total)	100	110		1	112	70-130	03/18/2020 2017
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		114	70-130				
Toluene-d8		114	70-130				
Bromofluorobenzene		120	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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 - MB

Sample ID: VQ48461-001

Matrix: Aqueous

Batch: 48461

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
Toluene	ND		1	1.0	0.40	ug/L	03/19/2020 2231
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		101	70-130				
Toluene-d8		106	70-130				
Bromofluorobenzene		100	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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 - LCS

Sample ID: VQ48461-002

Matrix: Aqueous

Batch: 48461

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Toluene	50	51		1	101	70-130	03/19/2020 2126
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		98	70-130				
Toluene-d8		100	70-130				
Bromofluorobenzene		98	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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

EDB & DBCP by Microextraction - MB

Sample ID: VQ48323-001

Matrix: Aqueous

Batch: 48323

Prep Method: 8011

Analytical Method: 8011

Prep Date: 03/19/2020 0904

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	03/20/2020 0622
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		97	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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

EDB & DBCP by Microextraction - LCS

Sample ID: VQ48323-002

Matrix: Aqueous

Batch: 48323

Prep Method: 8011

Analytical Method: 8011

Prep Date: 03/19/2020 0904

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.23		1	92	60-140	03/20/2020 0632
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		95	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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

EDB & DBCP by Microextraction - MB

Sample ID: VQ48324-001

Matrix: Aqueous

Batch: 48324

Prep Method: 8011

Analytical Method: 8011

Prep Date: 03/19/2020 0910

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	03/20/2020 0155
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		88	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - LCS

Sample ID: VQ48324-002

Matrix: Aqueous

Batch: 48324

Prep Method: 8011

Analytical Method: 8011

Prep Date: 03/19/2020 0910

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.18		1	72	60-140	03/20/2020 0206
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		88	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

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EDB & DBCP by Microextraction - MS

Sample ID: VC13072-013MS

Matrix: Aqueous

Batch: 48324

Prep Method: 8011

Analytical Method: 8011

Prep Date: 03/19/2020 0910

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.25	0.24		1	95	60-140	03/20/2020 0227
Surrogate	Q	% Rec	Acceptance Limit					
1,1,1,2-Tetrachloroethane		83	57-137					

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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

EDB & DBCP by Microextraction - Duplicate

Sample ID: VC13072-014DU

Matrix: Aqueous

Batch: 48324

Prep Method: 8011

Analytical Method: 8011

Prep Date: 03/19/2020 0910

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	ND		1	0.00	20	03/20/2020 0248
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		91	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

EDB & DBCP by Microextraction - MB

Sample ID: VQ48410-001

Matrix: Aqueous

Batch: 48410

Prep Method: 8011

Analytical Method: 8011

Prep Date: 03/19/2020 1520

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	03/20/2020 1729
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		98	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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

EDB & DBCP by Microextraction - LCS

Sample ID: VQ48410-002

Matrix: Aqueous

Batch: 48410

Prep Method: 8011

Analytical Method: 8011

Prep Date: 03/19/2020 1520

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.21		1	83	60-140	03/20/2020 1740
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		97	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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

EDB & DBCP by Microextraction - MS

Sample ID: VC13072-033MS

Matrix: Aqueous

Batch: 48410

Prep Method: 8011

Analytical Method: 8011

Prep Date: 03/19/2020 1520

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.25	0.23		1	95	60-140	03/20/2020 1916
Surrogate	Q	% Rec	Acceptance Limit					
1,1,1,2-Tetrachloroethane		93	57-137					

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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

EDB & DBCP by Microextraction - Duplicate

Sample ID: VC13072-034DU

Matrix: Aqueous

Batch: 48410

Prep Method: 8011

Analytical Method: 8011

Prep Date: 03/19/2020 1520

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	ND		1	0.00	20	03/20/2020 1937
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		94	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - MB

Sample ID: VQ48653-001

Matrix: Aqueous

Batch: 48653

Prep Method: 8011

Analytical Method: 8011

Prep Date: 03/23/2020 0953

Parameter	Result	Q	Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.020	ug/L	03/24/2020 0908
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		93	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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EDB & DBCP by Microextraction - LCS

Sample ID: VQ48653-002

Matrix: Aqueous

Batch: 48653

Prep Method: 8011

Analytical Method: 8011

Prep Date: 03/23/2020 0953

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.21		1	86	60-140	03/24/2020 0919
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		87	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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

**Chain of Custody
and
Miscellaneous Documents**



Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.shealylab.com

Number 104017

Client: BLE		Report to Contact: <i>[Signature]</i>		Telephone No. / E-mail:		Guide No.	
Address: 4004 Paces Ch		Sampler's Signature: <i>[Signature]</i>		Analysis (Abbreviate if more space is needed)		Page 1 of 1	
City: Greenville SC		Private Name: <i>[Signature]</i>		VC13072		User:	
Project Name: <i>[Signature]</i>		Matrix:		LID:		Remarks / Cooler (D.D.):	
Project No. 10768-06		No. of Containers by Preservative Type:		Date:		Time:	
Sample ID / Description		Time		Date		Time	
(Containers for each sample may be combined on one line.)		Time		Date		Time	
03434-14001		1707		3/10/20		1707	
14001A		1709		3/10/20		1709	
17002		1034		3/10/20		1034	
17003		1059		3/10/20		1059	
17004		1204		3/10/20		1204	
17006		0851		3/11/20		0851	
17007A		0853		3/11/20		0853	
17008		0900		3/11/20		0900	
17009		1333		3/10/20		1333	
17010		1631		3/10/20		1631	
Turn Around Time Required (Prior lab approval required for expedited TAT):		Sample Disposal:		Possible Hazard Identification:		GC Requirements (Specify):	
Standard 1.1 Flush (Specify)		Return to Client <input checked="" type="checkbox"/> / Recycled by Lab <input type="checkbox"/>		Non-Hazard <input type="checkbox"/> / Flammable <input type="checkbox"/> / Skin Irritant <input type="checkbox"/> / Poison <input type="checkbox"/> / Unknown <input type="checkbox"/>		Date 3/13/20 Time 10:20	
1. Relinquished by <i>[Signature]</i>		Date 3/13/20 Time 10:20		2. Relinquished by <i>[Signature]</i>		Date 3/13/20 Time 10:20	
2. Relinquished by <i>[Signature]</i>		Date 3/13/20 Time 13:41		3. Relinquished by		Date	
3. Relinquished by		Date		4. Laboratory Received by <i>[Signature]</i>		Date 3/13/20 Time 13:46	
4. Relinquished by		Date		LAB USE ONLY: Received on (Date) 5/5/20		Receptor Temp. 5.5 °C	

Note: All samples are retained for four weeks from receipt unless other arrangements are made.



Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.shealylab.com

Number 104019

Client: <u>SALE</u>		Report to Contact: <u>Travis Jordan</u>		Telephone No. / E-mail:		Quote No.:	
Address: <u>6004 Sanders Ct</u>		Sampler's Signature: <u>[Signature]</u>		Analysis (Attach list if more spaces is needed)		Page <u>2</u> of <u>4</u>	
City: <u>Columbia</u>		Printed Name: <u>Grant Davis</u>		Matrix: <u>Water</u>		LID: <u>VC13072</u>	
Project Name: <u>10708-06</u>		P.O. No.:		No. of Containers by Preservation Type:		Date: <u>3/10/20</u>	
Project No.:		Sample ID / Description:		Matrix:		Date: <u>3/10/20</u>	
(Containers by each sample may be combined on one file.)		Date:		Time:		Date: <u>3/10/20</u>	
<u>03439-17011</u>		<u>3/10/20</u>		<u>1116</u>		<u>6</u>	
<u>17012</u>		<u>3/10/20</u>		<u>1435</u>		<u>5</u>	
<u>17013</u>		<u>3/10/20</u>		<u>1514</u>		<u>1</u>	
<u>17014</u>		<u>3/10/20</u>		<u>1400</u>		<u>1</u>	
<u>17015</u>		<u>3/10/20</u>		<u>1050</u>		<u>1</u>	
<u>17016</u>		<u>3/10/20</u>		<u>0904</u>		<u>1</u>	
<u>17017</u>		<u>3/10/20</u>		<u>1249</u>		<u>1</u>	
<u>17018</u>		<u>3/10/20</u>		<u>0442</u>		<u>1</u>	
<u>17019</u>		<u>3/10/20</u>		<u>1129</u>		<u>1</u>	
<u>17020</u>		<u>3/10/20</u>		<u>1159</u>		<u>1</u>	

Turn Around Time Required (Prior lab approval required for expedited MAT.)		Sample Disposal:		Possibly-Hazardous Identification:	
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush (Specify)	<input type="checkbox"/> Return to Client	<input type="checkbox"/> Disposed by Lab	<input type="checkbox"/> Benign-Hazard	<input type="checkbox"/> Ignitable
1. Relinquished by <u>[Signature]</u>		Date: <u>3/13/20</u>	Time: <u>1020</u>	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison
2. Relinquished by <u>[Signature]</u>		Date: <u>3/30</u>	Time: <u>1340</u>	GC Requirements (Specify):	
3. Relinquished by <u>[Signature]</u>		Date:	Time:	Date: <u>3/30</u>	Time: <u>1020</u>
4. Relinquished by <u>[Signature]</u>		Date:	Time:	Date:	Time:
4. Laboratory received by <u>[Signature]</u>		Date: <u>3/13/20</u>	Time: <u>1340</u>	Date:	Time:
LAB USE ONLY		Date:	Time:	Date:	Time:

Note: All samples are retained for four weeks from receipt unless other arrangements are made.



Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.shealylab.com

Number 104889

Client: <u>BLE</u>		Report to Contact: <u>Jason Siskin</u>		Telephone No. / E-mail:		Quote No.:	
Address: <u>1004 Parkway Ch</u>		Sampler's Signature: <u>[Signature]</u>		Analysis (Attach list if more space is needed)		Pages: <u>3 of 4</u>	
City: <u>Summerville</u>		Printed Name: <u>Jason Siskin</u>		Barcode:		VC13072	
Project Name: <u>Farmal Hwy / 116 Hwy</u>		F.O. No.:		LUD:		order	
Project No.:		Date:		Time:		order	
Sample ID / Description		Date		Time		order	
(Containers for each sample may be combined on one line.)		Date		Time		order	
03479 - RW03		3/11/20		1300		order	
RW04		3/11/20		1533		order	
RW08		3/11/20		1714		order	
RW09		3/11/20		1338		order	
RW10		3/11/20		1448		order	
RW11		3/11/20		1048		order	
RW12		3/11/20		1216		order, silica	
RW13		3/11/20		1445		order	
RW16		3/11/20		1133		order	
RW17		3/11/20		1905		order	
Turn Around Time Required (Prior lab approval required for expedited TAT)		Sample Disposal		Possible-Hazard Identification		OC Requirements (Specify)	
Standard 1 Rush Specialty		<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Request by Lab		Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown		Date Time	
1. Relinquished by: <u>[Signature]</u>		Date: <u>3/13/20</u> Time: <u>1020</u>		1. Relinquished by: <u>[Signature]</u>		Date: <u>3/13/20</u> Time: <u>1020</u>	
2. Relinquished by: <u>[Signature]</u>		Date: <u>3-13-20</u> Time: <u>1340</u>		2. Relinquished by: <u>[Signature]</u>		Date: Time	
3. Relinquished by:		Date: Time		3. Relinquished by:		Date: Time	
4. Relinquished by:		Date: Time		4. Relinquished by: <u>[Signature]</u>		Date: <u>3/13/20</u> Time: <u>1340</u>	
Note: All samples are retained for four weeks from receipt unless other arrangements are made.							
LAB USE ONLY Received on ice (Circle) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Ice Pack <input type="checkbox"/> Receipt Temp. _____ °C							

Number 104890

SHEALY ENVIRONMENTAL SERVICES, INC.
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.shealylab.com

Chain of Custody Record



Client: <u>ALF</u>		Report to Contact: <u>James Shealy</u>		Telephone No. / E-mail:		Quote No.:	
Address: <u>10768-04</u>		Sampler's Signature: <u>[Signature]</u>		Analysis (Attach list if more space is needed):		Page <u>4</u> of <u>4</u>	
City: <u>West Columbia</u>		Printed Name: <u>James Shealy</u>		Matrix:		Reference: <u>VC13072</u>	
Project Name: <u>James Shealy / County</u>		Project No.: <u>10768-04</u>		No. of Containers by Preservative Type:		FAS:	
Sample ID / Description		Date		Time		Retention:	
(Containers for each sample may be combined on one line.)							
<u>03439-CK-1</u>	<u>3/12/10</u>	<u>1345</u>	<u>6</u>	<u>5</u>	<u>1108</u>	<u>1108</u>	<u>1108</u>
<u>CK-2</u>	<u>3/12/10</u>	<u>1340</u>					
<u>CK-3</u>	<u>3/12/10</u>	<u>1315</u>					
<u>CK-4</u>	<u>3/12/10</u>	<u>1330</u>					
<u>SEED-1</u>	<u>3/12/10</u>	<u>1350</u>					
<u>FS-1</u>	<u>3/12/10</u>	<u>0800</u>					
<u>FS-2</u>	<u>3/12/10</u>	<u>0800</u>					
<u>FS-3</u>	<u>3/12/10</u>	<u>0800</u>					
<u>TK-1</u>	<u>Lab</u>	<u>Lab</u>					

Turn Around Time Required (Prior lab approval required for expedited MAT):	Sample Disposal:	Sample Requirements (Specify):
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)	<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab	<input type="checkbox"/> Unknown <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Flammable
1. Relinquished by: <u>[Signature]</u>	Date: <u>3/12/10</u> Time: <u>1340</u>	Date: <u>3/12/10</u> Time: <u>1340</u>
2. Relinquished by: <u>[Signature]</u>	Date: <u>03/12/10</u> Time: <u>1340</u>	Date: <u>3/12/10</u> Time: <u>1340</u>
3. Relinquished by:	Date:	Date:
4. Relinquished by:	Date:	Date:

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

PACE ANALYTICAL SERVICES, LLC

Shealy Environmental Services, Inc.
Document Number: ME0018C-14

Page 1 of 1
Effective Date: 8/2/2018

Sample Receipt Checklist (SRC)

Client: BLE Cooler Inspected by/date: BMG / 03/13/2020 Lot #: VC13072

Means of receipt: <input checked="" type="checkbox"/> SESI <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 5.5 / 5.5 °C NA / NA °C NA / NA °C NA / NA °C	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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).
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₃ /TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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) NA 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 dithiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: NA	
SR barcode labels applied by: BMG Date: 03/13/2020	

Comments:

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?	✓		
2	Is UST Owner/Operator name, address, & phone number provided?	✓		
3	Is name, address, & phone number of current property owner provided?	✓		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	✓		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			✓
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	✓		
7	Has the facility history been summarized?	✓		
8	Has the regional geology and hydrogeology been described?			✓
9	Are the receptor survey results provided as required?			✓
10	Has current use of the site and adjacent land been described?	✓		
11	Has the site-specific geology and hydrogeology been described?			✓
12	Has the primary soil type been described?			✓
13	Have field screening results been described?			✓
14	Has a description of the soil sample collection and preservation been detailed?			✓
15	Has the field screening methodology and procedure been detailed?			✓
16	Has the monitoring well installation and development dates been provided?			✓
17	Has the method of well development been detailed?			✓
18	Has justification been provided for the locations of the monitoring wells?			✓
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			✓
20	Has the groundwater sampling methodology been detailed?	✓		
21	Have the groundwater sampling dates and groundwater measurements been provided?	✓		
22	Has the purging methodology been detailed?	✓		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	✓		
24	If free-product is present, has the thickness been provided?	✓		
25	Does the report include a brief discussion of the assessment done and the results?	✓		
26	Does the report include a brief discussion of the aquifer evaluation and results?			✓
27	Does the report include a brief discussion of the fate & transport models used?			✓

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



Healthy People. Healthy Communities.

9214 8969 0099 9790 1417 3774 30

STEVE SMITH
180 SHALLOW FORD ROAD
SALEM, SC 29676

MAY 15 2020



Re: **Corrective Action Options**
Hwy 11 Grocery, 13527 N Hwy 11, Salem, SC
UST Permit #03439
Release reported November 28, 2000
Monitoring Report received May 7, 2020
Oconee County

Dear Mr. Smith:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) reviewed the above-referenced report submitted by Bunnell-Lammons Engineering, Inc., on your behalf. This report, combined with site history, indicates active corrective action is necessary at the site to mitigate petroleum impact and ensure that there is no detrimental exposure to human health or the environment. While you, as the owner/operator, are ultimately responsible for cleanup actions taken in response to this release, funds from the State Underground Environmental Response Bank (SUPERB) Account and SUPERB Financial Responsibility Fund (SFRF) shall provide combined coverage for site rehabilitation and third party claims not to exceed one million dollars.

The SUPERB Site Rehabilitation and Fund Access Regulations R.61-98 require the UST owner/operator to develop and implement a reasonable, cost-effective corrective action to be performed by a DHEC certified site rehabilitation contractor. The selected technology must reduce the petroleum chemicals of concern concentrations to site-specific target levels that are determined by DHEC. As the owner/operator for the above-referenced release, you may choose one of two options discussed below to proceed toward meeting this requirement.

Option 1: Owner/Operator Lead

You may continue to use your existing DHEC Certified Site Rehabilitation Contractor of choice or select another contractor from the list found at <http://www.scdhec.gov/Environment/LW/UST/VendorsRecyclersContractors/CertifiedCon>

tractors/ to perform the corrective action. To assist you in determining the clean-up technology, time frame, clean-up levels, and associated costs, DHEC will develop and provide you copies of a technical specifications package to send to DHEC certified contractors you may wish to utilize for this corrective action.

The maximum amount of allowable costs for the active correction action work that may be reimbursed by the SUPERB fund will be determined through a solicitation process. DHEC will post the technical specifications package for the active corrective action on the DHEC website (<http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/CorrectiveActionSection/>) and will solicit bids from DHEC certified contractors to conduct the work by publishing a notice in the South Carolina Business Opportunities, a bi-weekly state government publication. This process is intended to ensure an adequate solicitation response is obtained so that a fair and competitive price for the work can be established. The lowest corrective action cost submitted in response to the solicitation will determine the reasonable or SUPERB-allowable cost. Except for the limitations specified in the solicitation, the reasonable or SUPERB-allowable cost is the maximum amount the SUPERB Account will pay for this active corrective action.

You may consider entering a written contract with your selected contractor following completion of the solicitation process to address any costs more than the reasonable or SUPERB-allowable costs and not approved by DHEC for reimbursement from the SUPERB Account. DHEC would not be a party to the contract; however, we will monitor and ensure you are making progress with corrective action activities. If the selected contractor is not able to complete the required activities, you will be required to find another certified contractor to complete the required activities.

To utilize the owner/operator lead option, please sign and return the enclosed Owner/Operator Lead Form for Site Rehabilitation within 15 days of the date of this letter.

Option 2: State Lead

If you choose the state lead option, DHEC will procure a DHEC Certified Site Rehabilitation Contractor to perform active corrective action. The contractor for this work will enter into a contract with DHEC and will be subject to the terms and conditions of the bid document for which he or she was awarded the work. You would not be a party to the contract.

The awarded contractor will only be authorized to perform the active corrective action as defined by the bid document. Any work to be completed prior to the scope of work as defined by the bid document will be performed by your current contractor. Any work to be performed after the completion of this active corrective action may be performed by your current contractor or by another DHEC certified contractor of your choosing.

As long as you do not interfere with or prohibit the work at your site, you will not be responsible for this active corrective action in the event the contractor does not perform appropriately or does not make satisfactory progress towards achieving the established corrective action goals.

To utilize the state lead option, please sign and return the enclosed State Lead Form for Site Rehabilitation within 15 days of the date of this letter.

We appreciate your prompt attention to this important matter. Please reference UST Permit #03439 on all correspondence or inquiries regarding this project. If you have any questions, please contact me at (803) 898-0610 or westbrcj@dhec.sc.gov.

Sincerely,



Conner Westbrook, Hydrogeologist
Corrective Action & Field Support Section
UST Management Division
Bureau of Land and Waste Management

enc: Active Corrective Action Options form
Permission/Right-of-Entry forms

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct, Greenville, SC 29615 (w/enc)
Technical File (w/enc)



**Owner/Operator Lead Form for Active
Corrective Action**

Only complete this form if: You are the legal owner of the existing or former underground storage tanks, **OR** are the legal owner's designated authorized representative.

I certify that I am the legal owner of record for the underground storage tanks identified below for the release date reported below or serve as the authorized representative for the owner. I wish for DHEC to post the technical specifications package for the active corrective action on the DHEC website and solicit bids from DHEC certified contractors to conduct the work by publishing a notice in the South Carolina Business Opportunities and to select my own corrective action contractor after bid solicitation results are received. I understand the lowest corrective action cost submitted in response to the solicitation will determine the reasonable or SUPERB-allowable cost. I understand if the selected contractor is not able to complete the required activities, I will be required to find another certified contractor to complete the required activities. Except for the limitations specified in the solicitation, the reasonable or SUPERB-allowable cost is the maximum amount the SUPERB Account will pay for the active corrective action.

UST Permit #	03439	Release Report Date:	November 28, 2000
Facility Name:	Hwy 11 Grocery		
Facility Address:	13527 N Hwy 11		
Facility Phone Number:			

Name of UST owner/former owner or authorized representative (Print):		
Signature of UST owner/former owner or authorized representative:		Date
Affiliation (if applicable)		
Signature of Witness		Date

Contact Info		
Phone Numbers:	Home:	Cell:
Email Address:		



State Lead Option Permission Form for Active Corrective Action

Only complete this form if: You are the legal owner of the existing or former underground storage tanks, **OR** are the legal owner's designated authorized representative.

I certify that I am the legal owner of the existing or former underground storage tanks located identified below and for the release reported the date listed below or serve as the authorized representative for the UST owner. I grant permission to the South Carolina Department of Health and Environmental Control (DHEC) to post the technical specifications package for the active corrective action on the DHEC website and solicit bids from DHEC certified contractors to conduct the work by publishing a notice in the South Carolina Business Opportunities and to select a corrective action contractor, on my behalf, after bid solicitation results are received. The contractor will be designated as my contractor for only the required environmental site rehabilitation activities. I understand that DHEC or its contractor will be responsible for obtaining right-of-entry from the property owner and notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report.

UST Permit #	03439	Release Report Date:	November 28, 2000
Facility Name:	Hwy 11 Grocery		
Facility Address:	13527 N Hwy 11, Salem, SC 29676-9801		
Facility Phone Number:			
Is facility within city limits? (check yes/no)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Name of nearest intersecting street/road/highway:			
Does public water/sewer utility service this facility?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:			
Name:	Phone Number:		
Were USTs previously removed from the ground at this facility?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
*If yes, please provide the name/contact number of a person that can assist in the location of the former UST(s):			
Name:	Phone Number:		
Is the facility currently leased to someone?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
*If yes, notify them of the pending work scope, and please provide their name/contact number:			
Name:	Phone Number:		

***Please note that if vehicles or other mobile structures are parked over the location of the existing or former USTs, they should be moved prior to DHEC's contractor mobilizes to the facility.**

Name of UST owner/former owner or authorized representative (Print):			
Signature of UST owner/former owner or authorized representative:		Date	
Affiliation (if applicable)			
Signature of Witness		Date	

Contact Info

Phone Numbers:	Home:	Cell:
Email Address:		

Corner



UST
MAY 29 2020

State Lead Option Permission Form for Active Corrective Action

UST
DOCKETING
99
11/11/20

Only complete this form if: You are the legal owner of the existing or former underground storage tanks, **OR** are the legal owner's designated authorized representative.

I certify that I am the legal owner of the existing or former underground storage tanks located identified below and for the release reported the date listed below or serve as the authorized representative for the UST owner. I grant permission to the South Carolina Department of Health and Environmental Control (DHEC) to post the technical specifications package for the active corrective action on the DHEC website and solicit bids from DHEC certified contractors to conduct the work by publishing a notice in the South Carolina Business Opportunities and to select a corrective action contractor, on my behalf, after bid solicitation results are received. The contractor will be designated as my contractor for only the required environmental site rehabilitation activities. I understand that DHEC or its contractor will be responsible for obtaining right-of-entry from the property owner and notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report.

UST Permit #	03439	Release Report Date:	November 28, 2000
Facility Name:	Hwy 11 Grocery		
Facility Address:	13527 N Hwy 11, Salem, SC 29676-9801		
Facility Phone Number:			
Is facility within city limits? (check yes/no)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Name of nearest intersecting street/road/highway:	Hwy 11 + Hwy 130		
Does public water/sewer utility service this facility?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
*If no, please provide a contact name/number that can assist in the location of private water and septic tank lines:			
Name:	Phone Number:		
Were USTs previously removed from the ground at this facility?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
*If yes, please provide the name/contact number of a person that can assist in the location of the former UST(s):			
Name:	UN KNOWN	Phone Number: UNKNOWN	
Is the facility currently leased to someone?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
*If yes, notify them of the pending work scope, and please provide their name/contact number:			
Name:	James Alexander	Phone Number: 864-944-7625	

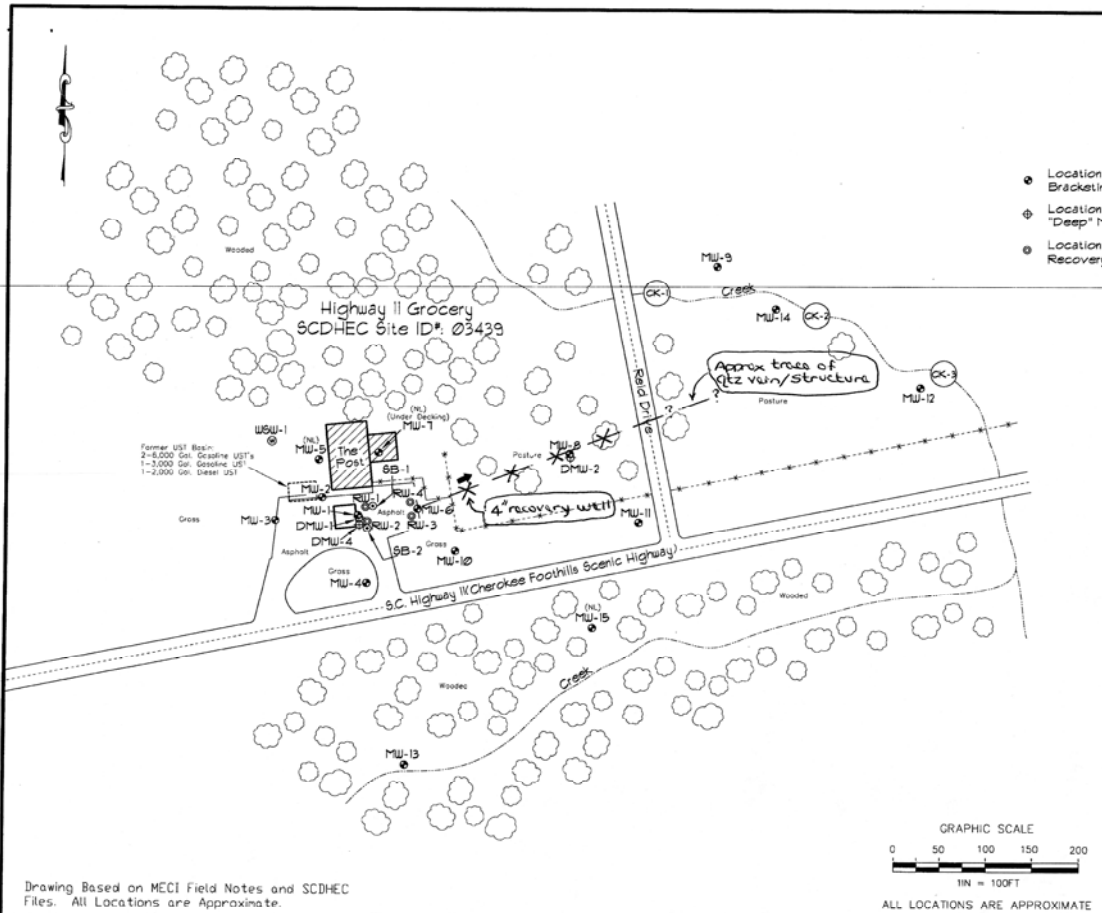
***Please note that if vehicles or other mobile structures are parked over the location of the existing or former USTs, they should be moved prior to DHEC's contractor mobilizes to the facility.**

Name of UST owner/former owner or authorized representative (Print):	Steven Smith		
Signature of UST owner (former owner) or authorized representative:	Stu Smith	5-27-2020 Date	
Affiliation (if applicable)			
Signature of Witness	Kate C. Mann	5-27-2020 Date	
Contact Info			
Phone Numbers:	Home:	Cell:	864-903-5848
Email Address:			



Explanation:

- Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of 4-inch Recovery Well
- ⊙ Location of Water Supply Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- ⊙ Location of Surface Water Sample Collection
- ⊙ Location of Soil Test Boring
- Fence
- Creek

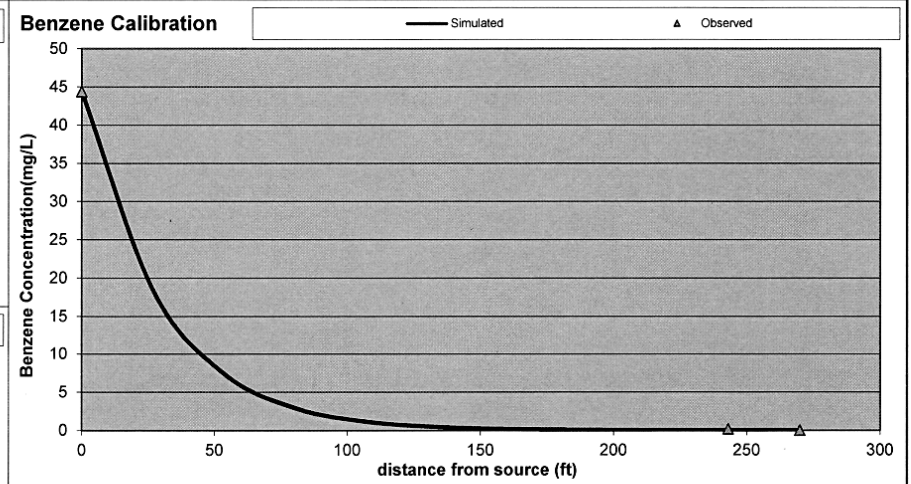
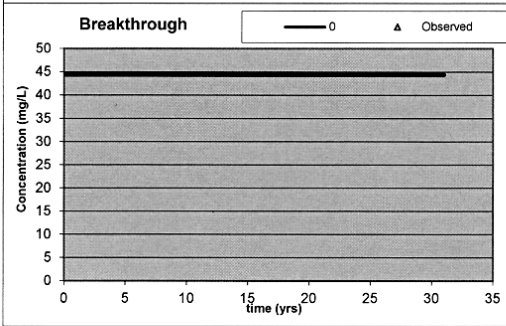
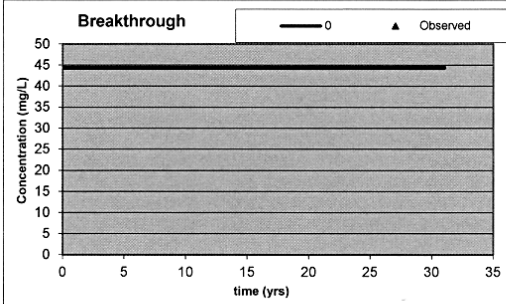


Drawing Based on MECI Field Notes and SCDHEC Files. All Locations are Approximate.

Domenico Model						
UST # 03439 Site Name: Hwy 11 Grocery Modeler: Conner Westbrook Date: 4/15/2020		Transport Parameters		Simulation Time		
		x_{max} <input type="text" value="270"/> ft y_{max} <input type="text" value="25"/> ft z <input type="text" value="0"/> ft Source Width <input type="text" value="50"/> ft Source Thickness <input type="text" value="15"/> ft	t_{sim} <input type="text" value="31"/> yrs			
Groundwater Flow Parameters			Aquifer Characteristics			
K <input type="text" value="149.65"/> ft/yr dh/dx <input type="text" value="0.043"/> θ <input type="text" value="0.45"/> dec. % v_x <input type="text" value="14.29988889"/> ft/yr			ρ_d <input type="text" value="1.6"/> kg/L f_{oc} <input type="text" value="0.0002"/>			
Retarded Velocity (ft/yr)						
Source Area CoC Data			Simulation Points for Breakthrough Curves			
CoC	C_{source} (mg/L)	K_{oc} (L/kg)	CoC	R	v_R	
Benzene	44.39	81	Benzene	1.058	13.52	
Toluene	26.54	133	Toluene	1.095	13.06	
Ethylbenzene	3.7	176	Ethylbenzene	1.125	12.71	
Xylenes	21.68	639	Xylenes	1.454	9.83	
Naphthalene	6.7	1543	Naphthalene	2.097	6.82	
MtBE	173	11	MtBE	1.008	14.19	
EDB	1.9	28	EDB	1.020	14.02	
1,2-DCA	3.7	17.5	1,2-DCA	1.012	14.12	
			x <input type="text" value="0"/> ft y <input type="text" value="0"/> ft z <input type="text" value="0"/> ft	x <input type="text" value="0"/> ft y <input type="text" value="0"/> ft z <input type="text" value="0"/> ft		
$C(x, y, z, t) = \left(\frac{C_0}{8}\right) \exp\left[\left(\frac{x}{2\alpha_x}\right)\left(1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}}\right)\right] \operatorname{erfc}\left[\frac{x - vt\sqrt{1 + \frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}}\right] \left\{ \operatorname{erf}\left[\frac{y + \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] - \operatorname{erf}\left[\frac{y - \frac{Y}{2}}{2\sqrt{\alpha_y x}}\right] \right\} \left\{ \operatorname{erf}\left[\frac{z + Z}{2\sqrt{\alpha_z x}}\right] - \operatorname{erf}\left[\frac{z - Z}{2\sqrt{\alpha_z x}}\right] \right\}$						



Benzene Calibration			Temporal Calibration Data					Site ID 03439			
Spatial Calibration Data (centerline)			0					Site Name Hwy 11 Grocery			
x	C _{obs} (mg/L)	C _{sim} (mg/L)	t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	Model Calibration Parameters			
0	44.39	44.39	0		44.39		44.39	t _{1/2}	1.1 yrs	λ	0.63 yr ⁻¹
27		18.328	3.1		44.390		44.390	v _x	14.29989 ft/yr		
54		7.342	6.2		44.390		44.390	R	1.058		
81		2.881	9.3		44.390		44.390	v _R	13.521 ft/yr	C _{source}	44.39 mg/L
108		1.127	12.4		44.390		44.390	L _p	270 ft	t _{sim}	31 yrs
135		0.441	15.5		44.390		44.390	α _x	13.07301 ft		
162		0.174	18.6		44.390		44.390	α _y	1.307301 ft		
189		0.069	21.7		44.390		44.390	α _z	1E-99 ft		
216		0.027	24.8		44.390		44.390				
243	0.17	0.011	27.9		44.390		44.390				
270	0.0043	0.004	31		44.390		44.390				



Source	27	54	81	108	135	162	189	216	243	270
25	9.1908031	3.80575288	1.5750466	0.65069288	0.26813491	0.1102117	0.045203	0.01851	0.00757	0.003093
12.5	17.1240372	6.4912395	2.52102452	0.99025947	0.39136715	0.155317	0.061838	0.024687	0.009878	0.003961
0	18.3278324	7.34239443	2.88146379	1.12662471	0.44140834	0.1735698	0.068512	0.02714	0.010786	0.004299
12.5	17.1240372	6.4912395	2.52102452	0.99025947	0.39136715	0.155317	0.061838	0.024687	0.009878	0.003961
25	9.1908031	3.80575288	1.5750466	0.65069288	0.26813491	0.1102117	0.045203	0.01851	0.00757	0.003093

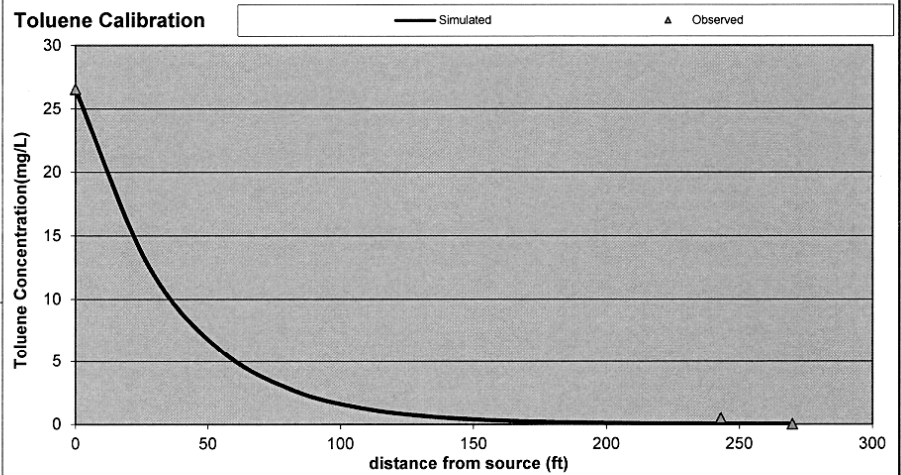
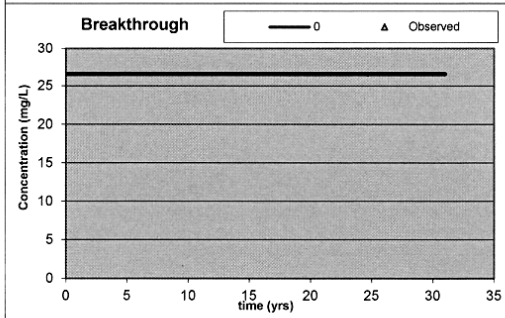
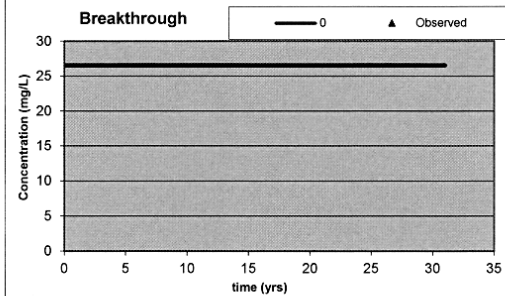
Toluene Calibration

Spatial Calibration Data (centerline)			Temporal Calibration Data				
x	C _{obs} (mg/L)	C _{sim} (mg/L)	t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)
0	26.54	26.54	0		26.54		26.54
27		12.856	3.1		26.540		26.540
54		6.042	6.2		26.540		26.540
81		2.782	9.3		26.540		26.540
108		1.276	12.4		26.540		26.540
135		0.587	15.5		26.540		26.540
162		0.271	18.6		26.540		26.540
189		0.125	21.7		26.540		26.540
216		0.058	24.8		26.540		26.540
243	0.47	0.027	27.9		26.540		26.540
270	0.013	0.013	31		26.540		26.540

Site ID 03439
Site Name Hwy 11 Grocery

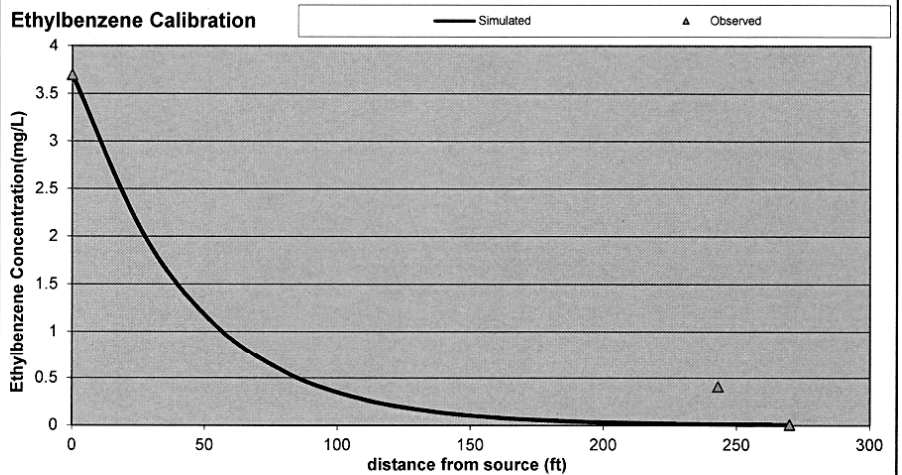
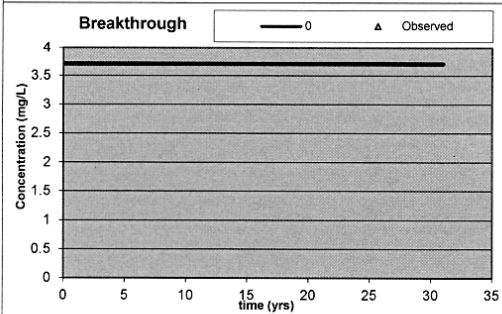
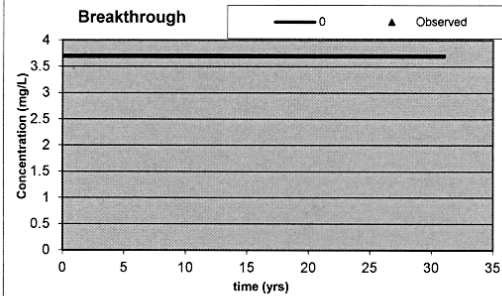
Model Calibration Parameters

t _{1/2}	1.47	yrs	λ	0.47143	yr ⁻¹
v _x	14.29989	ft/yr	C _{source}	26.54	mg/L
R	1.095		t _{sim}	31	yrs
v _R	13.064	ft/yr			
L _p	270	ft			
α _x	13.07301	ft			
α _y	1.307301	ft			
α _z	1E-99	ft			



Source	27	54	81	108	135	162	189	216	243	270
25	6.44666145	3.13175381	1.52056876	0.73697768	0.35628477	0.1718056	0.08267	0.039713	0.019055	0.009135
12.5	12.0112323	5.34164057	2.43382712	1.12157232	0.52002983	0.2421188	0.113092	0.052967	0.024865	0.011697
0	12.8556046	6.04205591	2.78179948	1.27602021	0.58652216	0.2705725	0.125297	0.05823	0.027149	0.012694
12.5	12.0112323	5.34164057	2.43382712	1.12157232	0.52002983	0.2421188	0.113092	0.052967	0.024865	0.011697
25	6.44666145	3.13175381	1.52056876	0.73697768	0.35628477	0.1718056	0.08267	0.039713	0.019055	0.009135

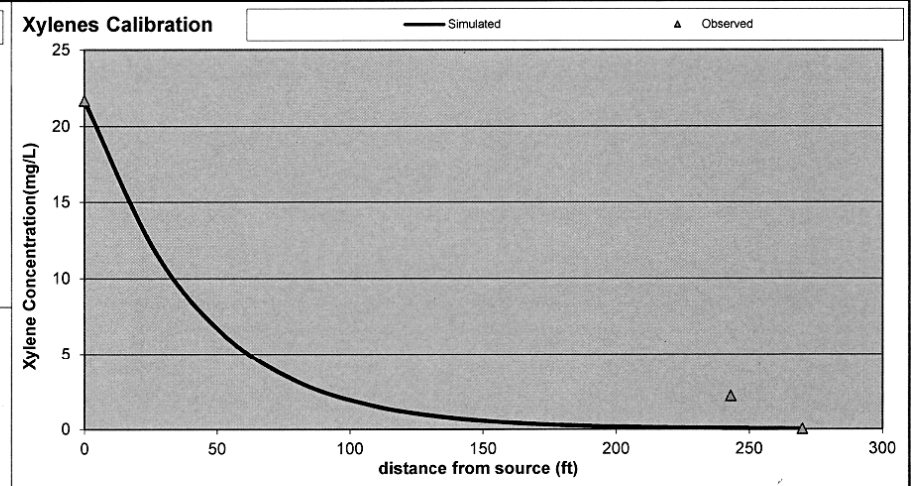
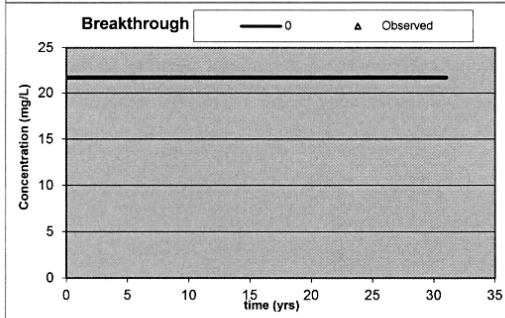
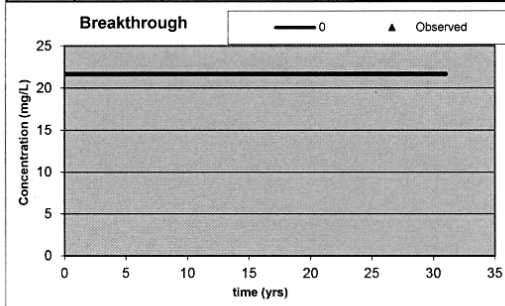
Spatial Calibration Data (centerline)			Temporal Calibration Data				Site ID	03439	
x	C _{obs} (mg/L)	C _{sim} (mg/L)	t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	Site Name	Hwy 11 Grocery
0	3.7	3.7	0		3.7		3.7	Model Calibration Parameters	
27		2.019	3.1		3.700		3.700	t _{1/2}	1.89 yrs
54		1.069	6.2		3.700		3.700	v _x	14.29989 ft/yr
81		0.554	9.3		3.700		3.700	R	1.125
108		0.286	12.4		3.700		3.700	v _R	12.709 ft/yr
135		0.148	15.5		3.700		3.700	L _p	270 ft
162		0.077	18.6		3.700		3.700	α _x	13.07301 ft
189		0.040	21.7		3.700		3.700	α _y	1.307301 ft
216		0.021	24.8		3.700		3.700	α _z	1E-99 ft
243	0.41	0.011	27.9		3.700		3.700	C _{source}	3.7 mg/L
270	0.0057	0.006	31		3.700		3.700	t _{sim}	31 yrs



Source	27	54	81	108	135	162	189	216	243	270
25	1.01232045	0.55392773	0.30293809	0.16538055	0.09005534	0.0489138	0.026511	0.014344	0.007752	0.004185
12.5	1.88612605	0.94480058	0.48488366	0.25168503	0.13144392	0.0689322	0.036266	0.019132	0.010116	0.005359
0	2.018718	1.06868627	0.55420909	0.28634372	0.14825067	0.0770331	0.04018	0.021033	0.011045	0.005816
12.5	1.88612605	0.94480058	0.48488366	0.25168503	0.13144392	0.0689322	0.036266	0.019132	0.010116	0.005359
25	1.01232045	0.55392773	0.30293809	0.16538055	0.09005534	0.0489138	0.026511	0.014344	0.007752	0.004185

Xylenes Calibration								
Spatial Calibration Data			Temporal Calibration Data					Site ID
(centerline)			0					03439
x	C _{obs} (mg/L)	C _{sim} (mg/L)	t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	Site Name
0	21.68	21.68	0		21.68		21.68	Hwy 11 Grocery
27		11.651	3.1		21.680		21.680	
54		6.076	6.2		21.680		21.680	
81		3.104	9.3		21.680		21.680	
108		1.580	12.4		21.680		21.680	
135		0.806	15.5		21.680		21.680	
162		0.412	18.6		21.680		21.680	
189		0.212	21.7		21.680		21.680	
216		0.109	24.8		21.680		21.680	
243	2.2	0.056	27.9		21.680		21.680	
270	0.029	0.029	31		21.680		21.680	

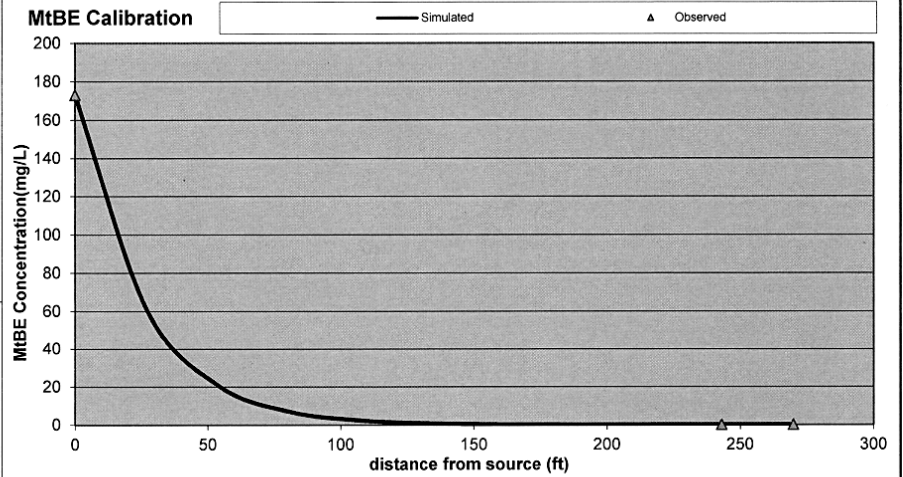
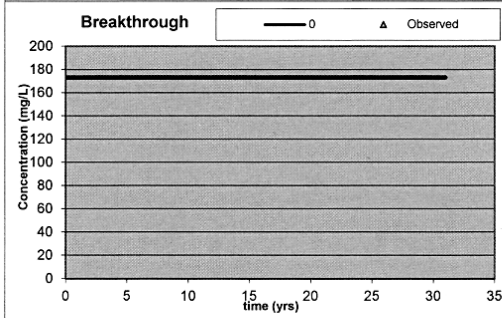
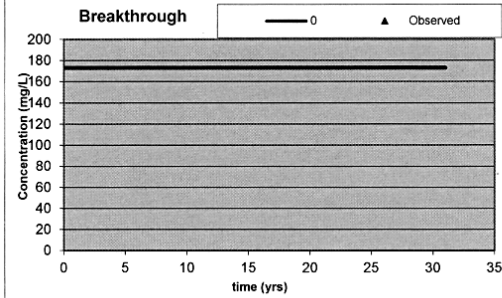
Model Calibration Parameters				
t _{1/2}	2.37	yrs	λ	0.29241 yr ⁻¹
v _x	14.29989	ft/yr		
R	1.454			
v _R	9.832	ft/yr	C _{source}	21.68 mg/L
L _p	270	ft	t _{sim}	31 yrs
α _x	13.07301	ft		
α _y	1.307301	ft		
α _z	1E-99	ft		



Source	27	54	81	108	135	162	189	216	243	270
25	5.84281241	3.14922188	1.69648329	0.91226941	0.48930789	0.2617639	0.139709	0.074406	0.039534	0.020936
12.5	10.8861583	5.37143479	2.71539647	1.38834072	0.7141891	0.3688936	0.191121	0.099238	0.051589	0.026808
0	11.6514396	6.07575686	3.10362574	1.57952437	0.80550712	0.4122457	0.211748	0.109099	0.056328	0.029094
12.5	10.8861583	5.37143479	2.71539647	1.38834072	0.7141891	0.3688936	0.191121	0.099238	0.051589	0.026808
25	5.84281241	3.14922188	1.69648329	0.91226941	0.48930789	0.2617639	0.139709	0.074406	0.039534	0.020936

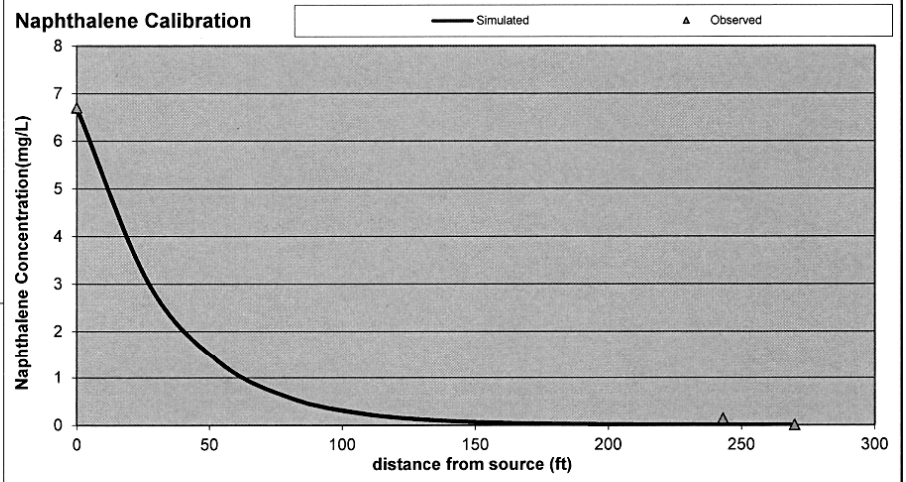
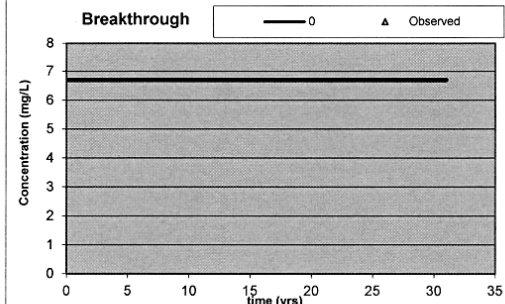
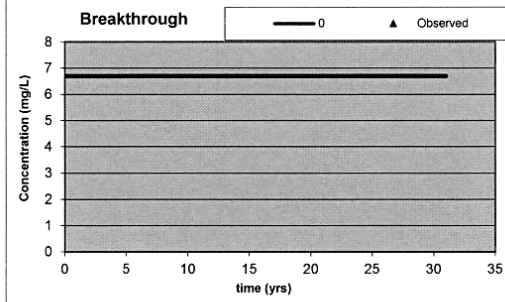
MtBE Calibration							
Spatial Calibration Data (centerline)			Temporal Calibration Data				Site ID 03439
x	C _{obs} (mg/L)	C _{sim} (mg/L)	t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)
0	173	173	0		173		173
27		60.781	3.1		173.000		173.000
54		20.720	6.2		173.000		173.000
81		6.919	9.3		173.000		173.000
108		2.302	12.4		173.000		173.000
135		0.768	15.5		173.000		173.000
162		0.257	18.6		173.000		173.000
189		0.086	21.7		173.000		173.000
216		0.029	24.8		173.000		173.000
243	0.028	0.010	27.9		173.000		173.000
270	0.003	0.003	31		173.000		173.000

Model Calibration Parameters			
t _{1/2}	0.84 yrs	λ	0.825 yr ⁻¹
v _x	14.29989 ft/yr		
R	1.008		
v _R	14.189 ft/yr	C _{source}	173 mg/L
L _p	270 ft	t _{sim}	31 yrs
α _x	13.07301 ft		
α _y	1.307301 ft		
α _z	1E-99 ft		



Source	27	54	81	108	135	162	189	216	243	270
25	30.4796921	10.7397421	3.78218555	1.32960191	0.46622451	0.1630668	0.056912	0.01983	0.006901	0.0024
12.5	56.7888765	18.3181201	6.05377804	2.02345981	0.68049682	0.2298037	0.077855	0.026448	0.009006	0.003073
0	60.7810529	20.7200586	6.91930682	2.30210352	0.76750686	0.25681	0.086258	0.029076	0.009833	0.003335
12.5	56.7888765	18.3181201	6.05377804	2.02345981	0.68049682	0.2298037	0.077855	0.026448	0.009006	0.003073
25	30.4796921	10.7397421	3.78218555	1.32960191	0.46622451	0.1630668	0.056912	0.01983	0.006901	0.0024

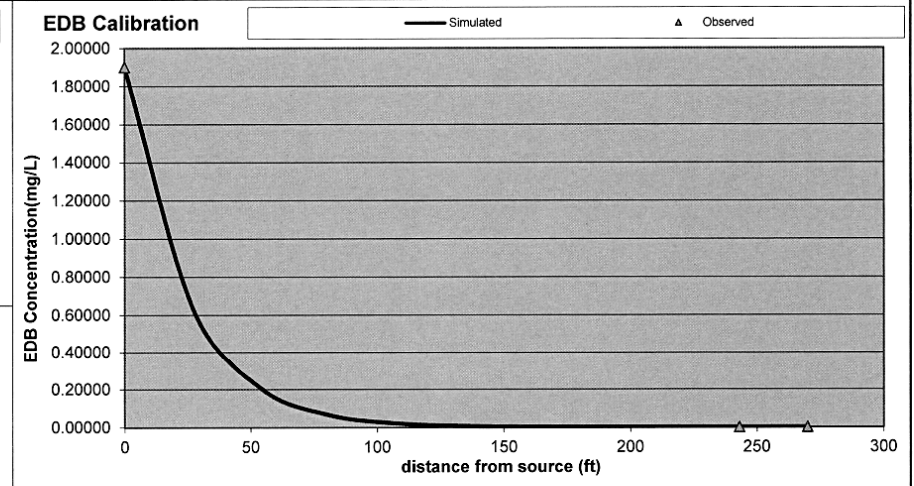
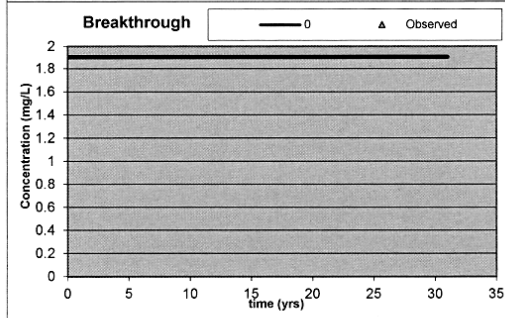
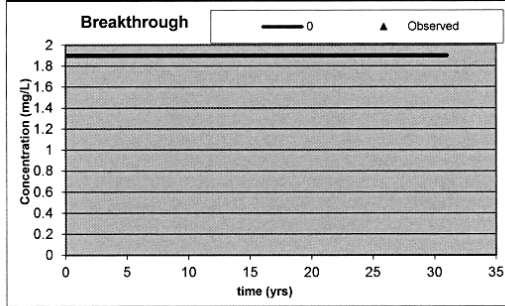
Spatial Calibration Data (centerline)			Temporal Calibration Data				Site ID	03439	
x	C _{obs} (mg/L)	C _{sim} (mg/L)	t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	Site Name	Hwy 11 Grocery
0	6.7	6.7	0		6.7		6.7	Model Calibration Parameters t _{1/2} 2.5 yrs λ 0.2772 yr ⁻¹ v _x 14.29989 ft/yr R 2.097 v _R 6.818 ft/yr C _{source} 6.7 mg/L L _p 270 ft t _{sim} 31 yrs α _x 13.07301 ft α _y 1.307301 ft α _z 1E-99 ft	
27		3.022	3.1		6.700		6.700		
54		1.323	6.2		6.700		6.700		
81		0.567	9.3		6.700		6.700		
108		0.242	12.4		6.700		6.700		
135		0.104	15.5		6.700		6.700		
162		0.044	18.6		6.700		6.700		
189		0.019	21.7		6.700		6.700		
216		0.008	24.8		6.700		6.700		
243	0.14	0.003	27.9		6.700		6.700		
270	0.0014	0.001	31		6.700		6.700		



Source	27	54	81	108	135	162	189	216	243	270
25	1.5156567	0.68571452	0.31005617	0.13993393	0.06297203	0.0282365	0.012599	0.005577	0.002435	0.00104
12.5	2.82392752	1.16958123	0.49627688	0.21295899	0.09191338	0.0397926	0.017236	0.007439	0.003178	0.001331
0	3.02244557	1.32294098	0.56723123	0.24228484	0.10366565	0.044469	0.019096	0.008178	0.00347	0.001445
12.5	2.82392752	1.16958123	0.49627688	0.21295899	0.09191338	0.0397926	0.017236	0.007439	0.003178	0.001331
25	1.5156567	0.68571452	0.31005617	0.13993393	0.06297203	0.0282365	0.012599	0.005577	0.002435	0.00104

EDB Calibration								
Spatial Calibration Data			Temporal Calibration Data					Site ID
(centerline)			0					03439
x	C _{obs} (mg/L)	C _{sim} (mg/L)	t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	Site Name
0	1.9	1.90000	0		1.90000		1.90000	Hwy 11 Grocery
27		0.63605	3.1		1.90000		1.90000	
54		0.20660	6.2		1.90000		1.90000	
81		0.06574	9.3		1.90000		1.90000	
108		0.02084	12.4		1.90000		1.90000	
135		0.00662	15.5		1.90000		1.90000	
162		0.00211	18.6		1.90000		1.90000	
189		0.00068	21.7		1.90000		1.90000	
216		0.00022	24.8		1.90000		1.90000	
243	0.00002	0.00007	27.9		1.90000		1.90000	
270	0.00002	0.00002	31		1.90000		1.90000	

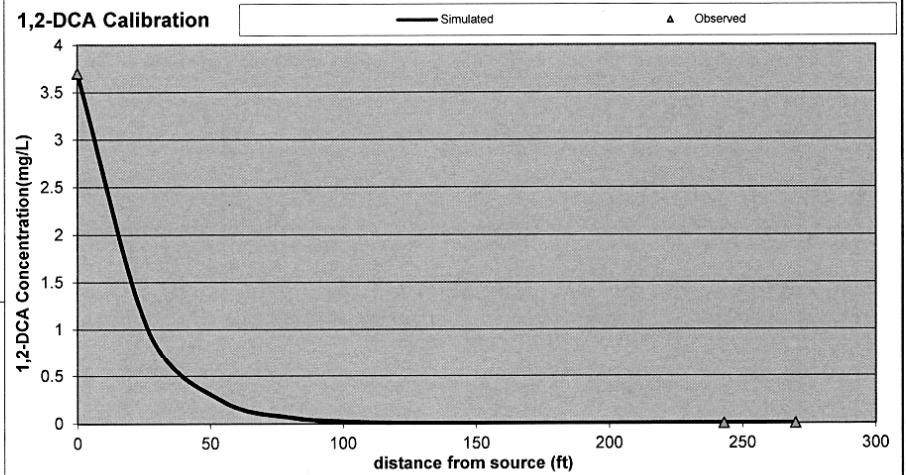
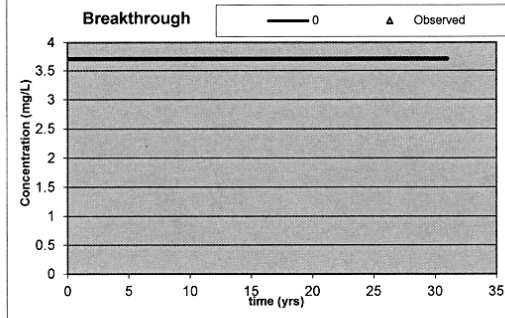
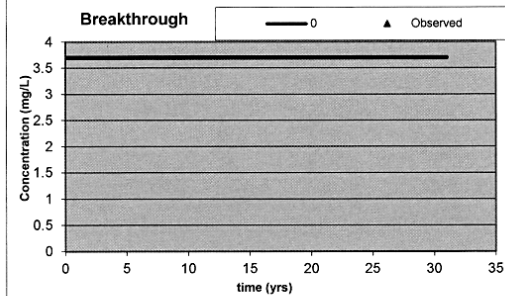
Model Calibration Parameters			
t _{1/2}	0.8	yr	λ
V _x	14.29989	ft/yr	0.86625 yr ⁻¹
R	1.020		
V _R	14.021	ft/yr	C _{source} 1.9 mg/L
L _p	270	ft	t _{sim} 31 yrs
α _x	13.07301	ft	
α _y	1.307301	ft	
α _z	1E-99	ft	



Source	27	54	81	108	135	162	189	216	243	270
25	0.31895624	0.1070847	0.03593267	0.01203597	0.00402131	0.0013401	0.000446	0.000148	4.91E-05	1.63E-05
12.5	0.59427001	0.18264781	0.05751394	0.01831699	0.00586947	0.0018886	0.00061	0.000197	6.4E-05	2.08E-05
0	0.63604633	0.20659726	0.0657369	0.02083937	0.00661995	0.0021106	0.000675	0.000217	6.99E-05	2.26E-05
12.5	0.59427001	0.18264781	0.05751394	0.01831699	0.00586947	0.0018886	0.00061	0.000197	6.4E-05	2.08E-05
25	0.31895624	0.1070847	0.03593267	0.01203597	0.00402131	0.0013401	0.000446	0.000148	4.91E-05	1.63E-05

1,2-DCA Calibration								
Spatial Calibration Data			Temporal Calibration Data				Site ID	03439
(centerline)			0				Site Name Hwy 11 Grocery	
x	C _{obs} (mg/L)	C _{sim} (mg/L)	t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	
0	3.7	3.7	0		3.7		3.7	
27		0.967	3.1		3.700		3.700	
54		0.245	6.2		3.700		3.700	
81		0.061	9.3		3.700		3.700	
108		0.015	12.4		3.700		3.700	
135		0.004	15.5		3.700		3.700	
162		0.001	18.6		3.700		3.700	
189		0.000	21.7		3.700		3.700	
216		0.000	24.8		3.700		3.700	
243	0.0004	0.000	27.9		3.700		3.700	
270	0.0004	0.000	31		3.700		3.700	

Model Calibration Parameters			
t _{1/2}	0.6 yrs	λ	1.155 yr ⁻¹
v _x	14.29989 ft/yr		
R	1.012		
v _R	14.124 ft/yr	C _{source}	3.7 mg/L
L _p	270 ft	t _{sim}	31 yrs
α _x	13.07301 ft		
α _y	1.307301 ft		
α _z	1E-99 ft		



Source	27	54	81	108	135	162	189	216	243	270
25	0.48472637	0.12700195	0.03325752	0.00869359	0.00226675	0.0005895	0.000153	3.96E-05	1.03E-05	2.65E-06
12.5	0.90312809	0.21661944	0.05323209	0.01323037	0.00330852	0.0008308	0.000209	5.29E-05	1.34E-05	3.4E-06
0	0.9666167	0.24502337	0.06084285	0.01505228	0.00373156	0.0009284	0.000232	5.81E-05	1.46E-05	3.69E-06
12.5	0.90312809	0.21661944	0.05323209	0.01323037	0.00330852	0.0008308	0.000209	5.29E-05	1.34E-05	3.4E-06
25	0.48472637	0.12700195	0.03325752	0.00869359	0.00226675	0.0005895	0.000153	3.96E-05	1.03E-05	2.65E-06

SSTLs

t 1000 yrs

UST Permit # 03439
Site Name: Hwy 11 Grocery

SSTLs in mg/L		RBSLs (mg/L):			0.005	1.000	0.700	10.000	0.040	0.025	0.00005	0.005
MW #	x (ft)	y (ft)	z (ft)	Benzene SSSL	Toluene SSSL	Ethylbenzene SSSL	Xylenes SSSL	MtBE SSSL	Naphthalene SSSL	EDB SSSL	1,2-DCA SSSL	
MW-1	130		0	0.423	39.193	15.469	237.644	7.359	1.380	0.01161	3.830	
MW-4	185	0	0	2.823	189.030	58.547	927.501	68.268	7.696	0.11883	64.975	
MW-6	170	0	0	1.685	123.268	40.789	640.778	37.244	4.824	0.06311	30.068	
MW-8	155	0	0	1.004	80.291	28.384	442.175	20.295	3.020	0.03348	13.898	
MW-14	13	0	0	0.008	1.416	0.936	13.466	0.066	0.037	0.00008	0.010	
RW-1	130	0	0	0.423	39.193	15.469	237.644	7.359	1.380	0.01161	3.830	
RW-2	140	0	0	0.598	52.235	19.728	304.764	11.046	1.889	0.01774	6.416	
RW-3	170	0	0	1.685	123.268	40.789	640.778	37.244	4.824	0.06311	30.068	
RW-4	160	0	0	1.193	92.637	32.035	500.445	24.850	3.531	0.04136	17.977	
RW-5	235	0	0	15.660	779.982	193.800	3157.163	510.558	36.227	0.97190	841.118	
RW-6	180	0	0	2.377	163.943	51.909	820.038	55.789	6.587	0.09624	50.264	
RW-7	175	0	0	2.002	142.167	46.017	724.935	45.586	5.637	0.07794	38.878	
RW-8	170	0	0	1.685	123.268	40.789	640.778	37.244	4.824	0.06311	30.068	
RW-9	160	0	0	1.193	92.637	32.035	500.445	24.850	3.531	0.04136	17.977	
RW-10	155	0	0	1.004	80.291	28.384	442.175	20.295	3.020	0.03348	13.898	
RW-11	135	0	0	0.503	45.250	17.470	269.136	9.016	1.615	0.01435	4.958	
RW-12	150	0	0	0.845	69.581	25.146	390.638	16.572	2.583	0.02709	10.743	
RW-13	140	0	0	0.598	52.235	19.728	304.764	11.046	1.889	0.01774	6.416	
RW-14	210	0	0	6.659	384.524	106.671	1713.648	186.959	16.721	0.34032	234.109	
RW-15	230	0	0	13.201	677.243	172.023	2794.567	417.713	31.043	0.78807	651.421	
				λ (yr ⁻¹):	0.630	0.471	0.367	0.292	0.825	0.277	0.866	1.155
				R:	1.058	1.095	1.125	1.454	1.008	2.097	1.020	1.012
				Pure Substance Solubility:	1750	526	169	175	5110	31	4321	8520
				Effective Solubility:	44.39	26.54	3.7	21.68	173	6.7	1.9	3.7

SSTLs

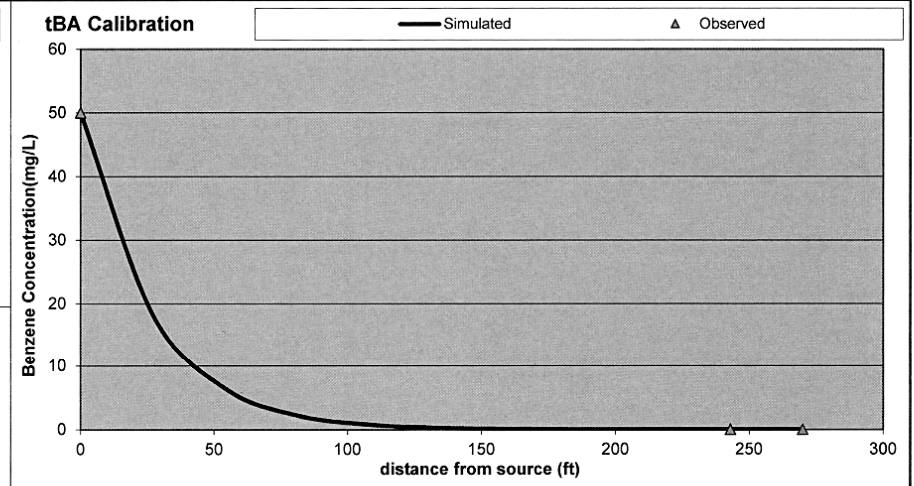
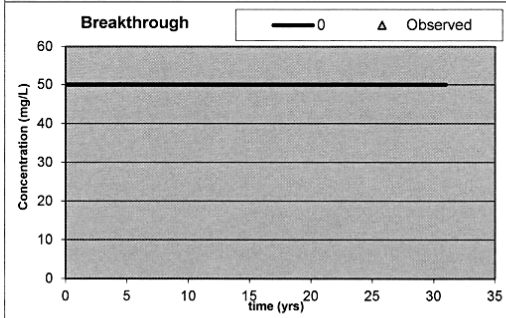
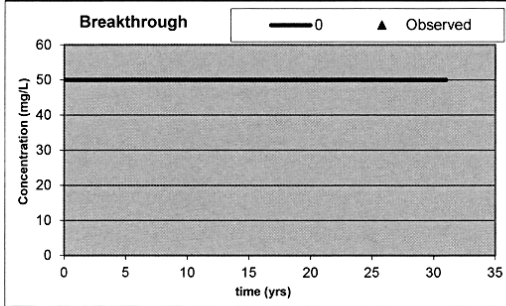
t 1000 yrs

UST Permit # 03439
Site Name: Hwy 11 Grocery

SSTLs in mg/L				RBSLs (mg/L):							
MW #	x (ft)	y (ft)	z (ft)	0.005	1.000	0.700	10.000	0.040	0.025	0.00005	0.005
				Benzene SSSL	Toluene SSSL	Ethylbenzene SSSL	Xylenes SSSL	MtBE SSSL	Naphthalene SSSL	EDB SSSL	1,2-DCA SSSL
RW-16	205		0	5.610	*333.693	* 94.633	*1516.013	*152.877	* 14.320	0.27580	*181.212
RW-17	207	0	0	6.008	*353.170	* 99.277	*1592.195	*165.695	* 15.236	0.30000	*200.764
WSW-1	0.1	0	0	0.005	1.003	0.702	10.023	0.040	0.025	0.00005	0.005
Creek	0.1	0	0	0.005	1.003	0.702	10.023	0.040	0.025	0.00005	0.005
λ (yr ⁻¹):				0.630	0.471	0.367	0.292	0.825	0.277	0.866	1.155
R:				1.058	1.095	1.125	1.454	1.008	2.097	1.020	1.012
Pure Substance Solubility:				1750	526	169	175	5110	31	4321	8520
Effective Solubility:				44.39	26.54	3.7	21.68	173	6.7	1.9	3.7

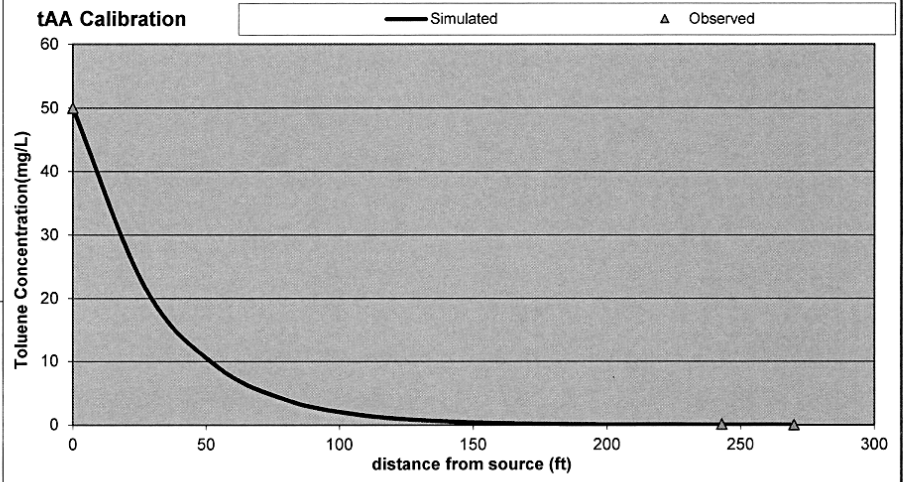
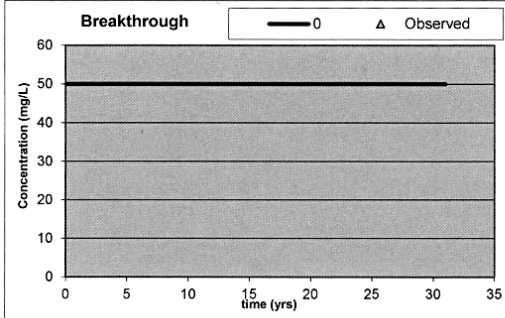
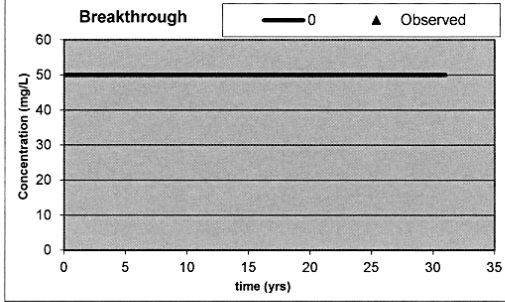
Domenico Model (Oxygenates)			Transport Parameters			Simulation Time		
UST # 03439 Site Name: Hwy 11 Grocery Modeler: Conner Westbrook Date: 6/15/2020			x_{max} <input type="text" value="270"/> ft y_{max} <input type="text" value="25"/> ft z <input type="text" value="0"/> ft Source Width <input type="text" value="50"/> ft Source Thickness <input type="text" value="15"/> ft			t_{sim} <input type="text" value="31"/> yrs		
Groundwater Flow Parameters			Plume Length			Aquifer Characteristics		
K <input type="text" value="149.65"/> ft/yr dh/dx <input type="text" value="0.043"/> θ <input type="text" value="0.45"/> dec. % v_x <input type="text" value="14.29988889"/> ft/yr			α_x <input type="text" value="13.07301"/> ft α_y <input type="text" value="1.307301"/> ft α_z <input type="text" value="1.00E-99"/> ft			ρ_d <input type="text" value="1.6"/> kg/L f_{oc} <input type="text" value="0.0002"/>		
Source Area CoC Data			Retarded Velocity (ft/yr)			Simulation Points for Breakthrough Curves		
CoC	C_{source} (mg/L)	K_{oc} (L/kg)	CoC	R	v_R	x <input type="text"/>	x <input type="text"/>	ft
tBA	50	1	tBA	1.001	14.29	y <input type="text"/>	y <input type="text"/>	ft
tAA	50	1	tAA	1.001	14.29	z <input type="text"/>	z <input type="text"/>	ft
DIPE	5	1.5	DIPE	1.001	14.28			
tAME	0.35	1.5	tAME	1.001	14.28			
EtBE		1.5	EtBE	1.001	14.28			
Ethanol		0.5	Ethanol	1.000	14.29			
$C(x, y, z, t) = \left(\frac{C_0}{8} \right) \exp \left[\left(\frac{x}{2\alpha_x} \right) \left(1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}} \right) \right] \operatorname{erfc} \left[\frac{x - vt \sqrt{1 + \frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}} \right] \left\{ \operatorname{erf} \left[\frac{y + \frac{Y}{2}}{2\sqrt{\alpha_y x}} \right] - \operatorname{erf} \left[\frac{y - \frac{Y}{2}}{2\sqrt{\alpha_y x}} \right] \right\} \left\{ \operatorname{erf} \left[\frac{z + Z}{2\sqrt{\alpha_z x}} \right] - \operatorname{erf} \left[\frac{z - Z}{2\sqrt{\alpha_z x}} \right] \right\}$								

tBA Calibration									
Spatial Calibration Data (centerline)			Temporal Calibration Data						Site ID
x	C _{obs} (mg/L)	C _{sim} (mg/L)	t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	03439	
0	50	50	0		50.000		50.000	Site Name Hwy 11 Grocery	
27		18.305	3.1		50.000		50.000	Model Calibration Parameters t _{1/2} 0.88 yrs λ 0.7875 yr ⁻¹ v _x 14.29989 ft/yr R 1.001 v _R 14.290 ft/yr C _{source} 50 mg/L L _p 270 ft t _{sim} 31 yrs α _x 13.07301 ft α _y 1.307301 ft α _z 1E-99 ft	
54		6.502	6.2		50.000		50.000		
81		2.263	9.3		50.000		50.000		
108		0.784	12.4		50.000		50.000		
135		0.273	15.5		50.000		50.000		
162		0.095	18.6		50.000		50.000		
189		0.033	21.7		50.000		50.000		
216		0.012	24.8		50.000		50.000		
243	0.0042	0.004	27.9		50.000		50.000		
270	0.0011	0.001	31		50.000		50.000		



Source	27	54	81	108	135	162	189	216	243	270
25	9.17938919	3.3703606	1.23681474	0.45306734	0.1655448	0.0603345	0.021942	0.007967	0.002889	0.001047
12.5	17.1027712	5.74861756	1.97964955	0.68950229	0.2416276	0.085027	0.030017	0.010626	0.00377	0.00134
0	18.3050714	6.5023972	2.26268664	0.78445129	0.27252271	0.0950193	0.033257	0.011682	0.004116	0.001455
12.5	17.1027712	5.74861756	1.97964955	0.68950229	0.2416276	0.085027	0.030017	0.010626	0.00377	0.00134
25	9.17938919	3.3703606	1.23681474	0.45306734	0.1655448	0.0603345	0.021942	0.007967	0.002889	0.001047

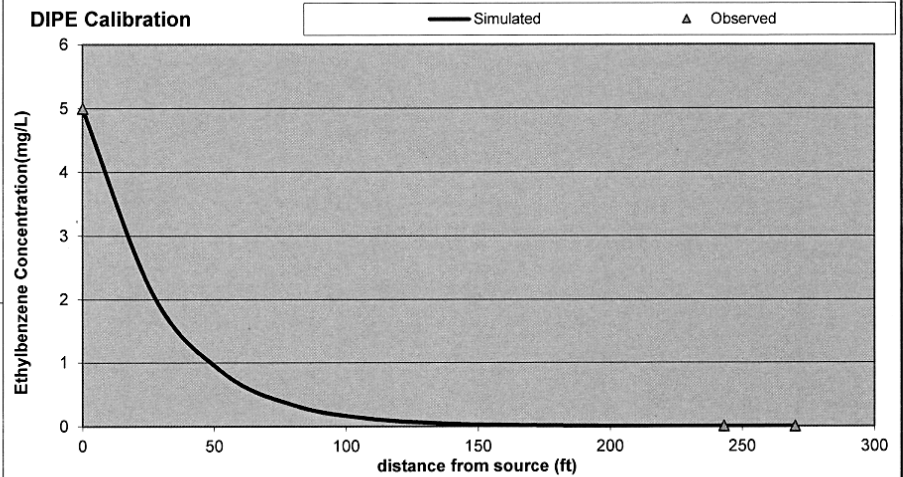
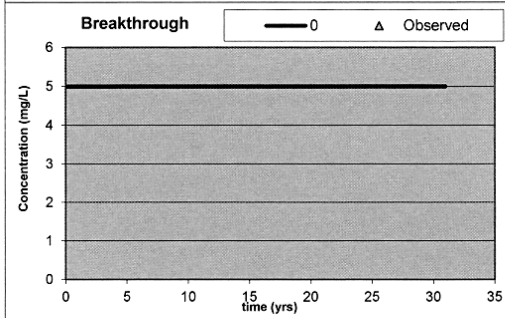
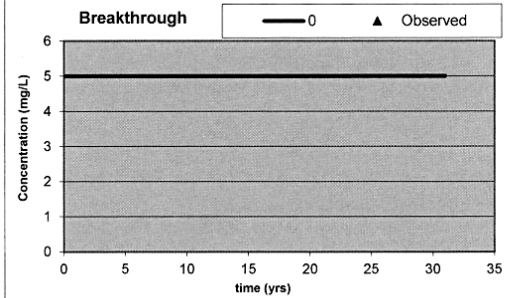
tAA Calibration								
Spatial Calibration Data (centerline)			Temporal Calibration Data					Site ID
x	C _{obs} (mg/L)	C _{sim} (mg/L)	t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	03439
0	50	50	0		50.000		50.000	Site Name Hwy 11 Grocery
27		21.797	3.1		50.000		50.000	Model Calibration Parameters $t_{1/2}$ 1.13 yrs λ 0.61327 yr ⁻¹ v_x 14.29989 ft/yr R 1.001 v_R 14.290 ft/yr C _{source} 50 mg/L L_p 270 ft α_x 13.07301 ft t _{sim} 31 yrs α_y 1.307301 ft α_z 1E-99 ft
54		9.219	6.2		50.000		50.000	
81		3.820	9.3		50.000		50.000	
108		1.577	12.4		50.000		50.000	
135		0.652	15.5		50.000		50.000	
162		0.271	18.6		50.000		50.000	
189		0.113	21.7		50.000		50.000	
216		0.047	24.8		50.000		50.000	
243	0.08	0.020	27.9		50.000		50.000	
270	0.008	0.008	31		50.000		50.000	



Source	27	54	81	108	135	162	189	216	243	270
25	10.930255	4.77869588	2.08811392	0.91081213	0.3962763	0.1719747	0.074473	0.032197	0.013903	0.005998
12.5	20.3649335	8.15072875	3.34224169	1.38612296	0.57840108	0.2423571	0.101879	0.042942	0.018143	0.007681
0	21.7965591	9.21948195	3.8200931	1.57700121	0.6523569	0.2708388	0.112874	0.04721	0.019809	0.008336
12.5	20.3649335	8.15072875	3.34224169	1.38612296	0.57840108	0.2423571	0.101879	0.042942	0.018143	0.007681
25	10.930255	4.77869588	2.08811392	0.91081213	0.3962763	0.1719747	0.074473	0.032197	0.013903	0.005998

DIPE Calibration

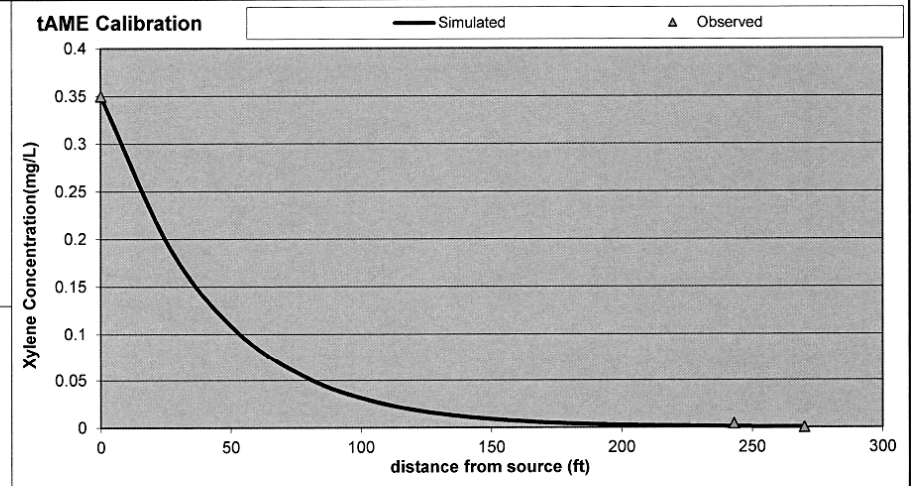
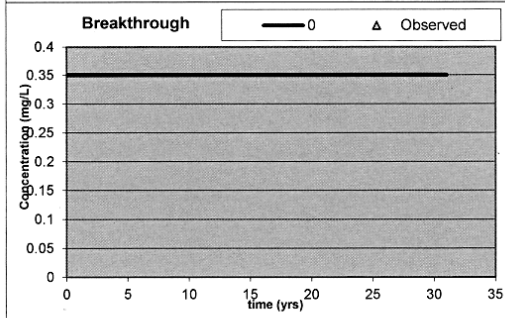
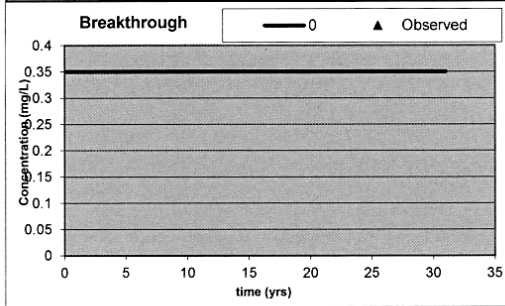
Spatial Calibration Data (centerline)			Temporal Calibration Data					Site ID 03439	
x	C _{obs} (mg/L)	C _{sim} (mg/L)	t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	Site Name Hwy 11 Grocery	
0	5	5	0		5.000	0	5.000	Model Calibration Parameters t _{1/2} 1.04 yrs λ 0.66635 yr ⁻¹ v _x 14.29989 ft/yr R 1.001 v _R 14.285 ft/yr C _{source} 5 mg/L L _p 270 ft t _{sim} 31 yrs α _x 13.07301 ft α _y 1.307301 ft α _z 1E-99 ft	
27		2.063	3.1		5.000		5.000		
54		0.826	6.2		5.000		5.000		
81		0.324	9.3		5.000		5.000		
108		0.127	12.4		5.000		5.000		
135		0.050	15.5		5.000		5.000		
162		0.019	18.6		5.000		5.000		
189		0.008	21.7		5.000		5.000		
216		0.003	24.8		5.000		5.000		
243	0.004	0.001	27.9		5.000		5.000		
270	0.0004	0.000	31		5.000		5.000		



Source	27	54	81	108	135	162	189	216	243	270
25	1.03442323	0.42800154	0.17699382	0.07306354	0.03008416	0.0123558	0.005064	0.002072	0.000847	0.000346
12.5	1.9273073	0.730016	0.28329686	0.11119202	0.04391056	0.0174126	0.006927	0.002763	0.001105	0.000443
0	2.06279423	0.82573835	0.32380075	0.1265039	0.04952507	0.0194589	0.007675	0.003038	0.001206	0.00048
12.5	1.9273073	0.730016	0.28329686	0.11119202	0.04391056	0.0174126	0.006927	0.002763	0.001105	0.000443
25	1.03442323	0.42800154	0.17699382	0.07306354	0.03008416	0.0123558	0.005064	0.002072	0.000847	0.000346

tAME Calibration								
Spatial Calibration Data			Temporal Calibration Data					Site ID
(centerline)			0					03439
x	C _{obs} (mg/L)	C _{sim} (mg/L)	t (yrs)	C _{obs} (mg/L)	C _{sim} (mg/L)	C _{obs} (mg/L)	C _{sim} (mg/L)	Site Name
0	0.35	0.35	0		0.35		0.35	Hwy 11 Grocery
27		0.189	3.1		0.350		0.350	
54		0.099	6.2		0.350		0.350	
81		0.051	9.3		0.350		0.350	
108		0.026	12.4		0.350		0.350	
135		0.013	15.5		0.350		0.350	
162		0.007	18.6		0.350		0.350	
189		0.003	21.7		0.350		0.350	
216		0.002	24.8		0.350		0.350	
243	0.0042	0.001	27.9		0.350		0.350	
270	0.00042	0.000	31		0.350		0.350	

Model Calibration Parameters			
t _{1/2}	1.64 yrs	λ	0.42256 yr ⁻¹
v _x	14.29989 ft/yr		
R	1.001		
v _R	14.285 ft/yr	C _{source}	0.35 mg/L
L _p	270 ft	t _{sim}	31 yrs
α _x	13.07301 ft		
α _y	1.307301 ft		
α _z	1E-99 ft		



Source	27	54	81	108	135	162	189	216	243	270
25	0.09457845	0.05111345	0.02760856	0.01488615	0.008006	0.0042948	0.002299	0.001229	0.000656	0.00035
12.5	0.17621582	0.08718107	0.04419035	0.02265454	0.01168548	0.0060525	0.003145	0.001639	0.000856	0.000448
0	0.18860354	0.09861257	0.05050839	0.02577422	0.01317961	0.0067638	0.003484	0.001802	0.000934	0.000486
12.5	0.17621582	0.08718107	0.04419035	0.02265454	0.01168548	0.0060525	0.003145	0.001639	0.000856	0.000448
25	0.09457845	0.05111345	0.02760856	0.01488615	0.008006	0.0042948	0.002299	0.001229	0.000656	0.00035

SSTLs

t 1000 yrs

UST Permit # 03439
 Site Name: Hwy 11 Groce

SSTLs in mg/L		RBSLs (mg/L):			1.400	0.240	0.150	0.128		
MW #	x (ft)	y (ft)	z (ft)	tBA SSTL	tAA SSTL	DIPE SSTL	tAME SSTL			
MW-1	130			211.240	15.625	12.733	3.003			
MW-4	185			1802.087	93.406	85.160	11.656			
MW-6	170			1005.884	57.447	50.796	8.065			
MW-8	155			560.806	35.290	30.264	5.574			
MW-14	13			2.268	0.357	0.229	0.172			
RW-1	130			211.240	15.625	12.733	3.003			
RW-2	140			312.291	21.653	18.009	3.847			
RW-3	170			1005.884	57.447	50.796	8.065			
RW-4	160			681.472	41.519	35.971	6.305			
RW-5	235			12488.128	468.485	473.013	39.482			
RW-6	180			1483.958	79.444	71.695	10.311			
RW-7	175			1221.835	67.560	60.351	9.120			
RW-8	170			1005.884	57.447	50.796	8.065			
RW-9	160			681.472	41.519	35.971	6.305			
RW-10	155			560.806	35.290	30.264	5.574			
RW-11	135			256.859	18.395	15.144	3.399			
RW-12	150			461.444	29.992	25.459	4.926			
RW-13	140			312.291	21.653	18.009	3.847			
RW-14	210			4750.645	209.484	200.988	21.483			
RW-15	230			10295.345	398.914	398.681	34.965			

			λ (yr ⁻¹):	0.788	0.613	0.666	0.423		
			R:	1.001	1.001	1.001	1.001		

Modeled off 3/11/20 data

From Tier II
 MW-3 MW-6

$$k = 0.171 \frac{\text{ft}}{\text{day}} \cdot \frac{1410 \frac{\text{ft}}{\text{day}}}{1410 \frac{\text{ft}}{\text{day}}} \cdot \frac{1410 \frac{\text{ft}}{\text{day}}}{1410 \frac{\text{ft}}{\text{day}}} = \frac{3605}{1410} \frac{\text{ft}}{\text{day}}$$

$$d\frac{h}{dx} = 0.043 \frac{\text{ft}}{\text{ft}}$$

$$\theta = .357 \text{ Sandy loam, using } .497$$

$$65\% \text{ Sand } 237\% \text{ Silt } 107\% \text{ Clay}$$

Explanation: $p_2 = 1.6$

FREE-PRODUCT

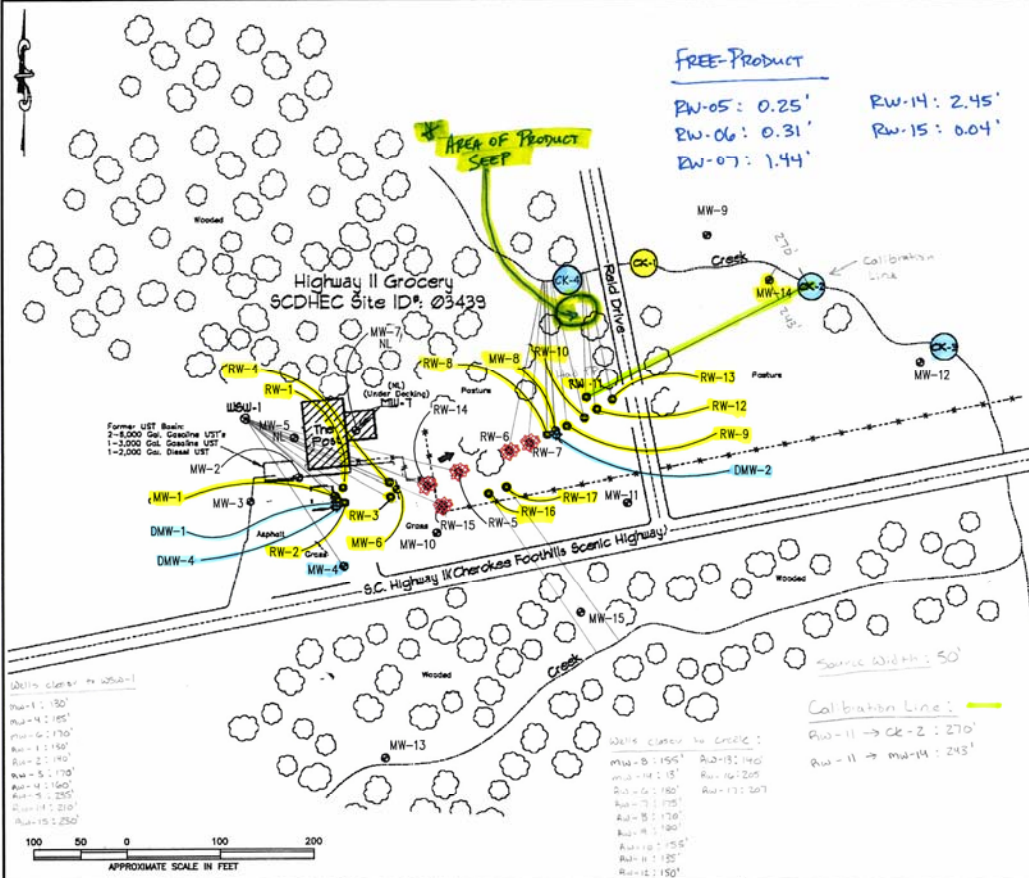
RW-05: 0.25' RW-14: 2.45'
 RW-06: 0.31' RW-15: 0.04'
 RW-07: 1.44'

- Location of Waterable Bracketing Monitoring Well
- ◊ Location of Double Cased "Deep" Monitoring Well
- Location of 4-Inch Recovery Well
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- ⊙ Location of Surface Water Sample Collection

- Fence
- Access Driveway
- DRY WELL WAS DRY AT TIME OF SAMPLING EVENT
- NL NOT LOCATED
- NA NOT ACCESSIBLE
- ◆ FREE-PRODUCT
- Dorechs < ABSL >
- > ABSL's

Highest Concentrations as of 3/10/20

- B: 8500 RW-3
- T: 5500 RW-2
- T: 2000 RW-2 & B
- K: 2100 RW-16
- N: 590 RW-16
- M: 12000 RW-6
- DC4: 3 RW-17 (1000)
- DD: 0.066 RW-2
- DDP: 500 RW-2
- TAA: 700 RW-17
- TAM: 1200 RW-3
- TSA: 2100 RW-2



DRAWN BY: ACE	DATE: 03-13-20
CHECKED BY: PJW	FILE: FHWY11GROCERY-06WIM
APPROVED BY: TJB	JOB NO: J19-10789-06

REVISIONS		BY
No.	DESCRIPTION	

B.L.E. BUNNELL LAMOND ENGINEERING
 5004 Ponders Court, Greenville, SC 29615
 Phone: (864) 289-255 Fax: (864) 289-4433

SITE PLAN
 FORMER HIGHWAY 11 GROCERY
 UST PERMIT #03439
 13527 HIGHWAY 11 NORTH
 SALEM, SOUTH CAROLINA

FIGURE
2

REFERENCE: DRAWING TITLE: "SITE BASE MAP" BY MIDLANDS ENVIRONMENTAL CONSULTANTS, INC. DATED 11-14-2012.

DMW-1: 63% Sand
 27% Silt
 10% Clay

Soil
 $f_{oc} = 4000$ organic carbon
 $\phi = 0.48$ Porosity
 $k = 1.4 \times 10^{-3}$ Soil hydraulic conductivity

Slug test

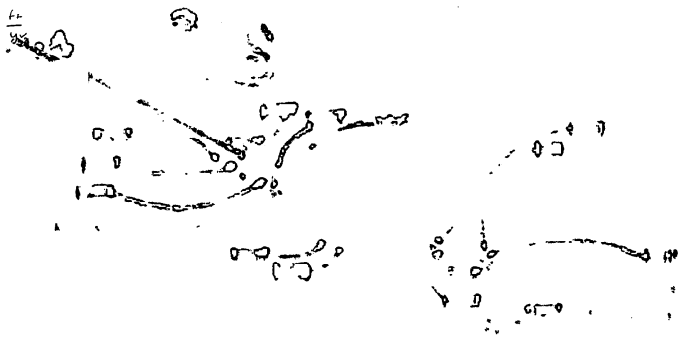
MW-3 MW-6
 $k = 0.171$ ft/day $k = 0.410$ ft/day

$dh/dx = 0.043$ F/ft
 $\theta = 35\%$ (sandy loam)

Estimated Seepage - 13.03 ft/yr
 $k = 106.05$ ft/yr

Reporting limit Ask about what reporting limits to use for GW SSTL's
 BTEX/MNCA: 5 mg/L Ask about WSW/creek SSTL's
 EDB: 0.02
 TAA/TBA: 100
 TAME: 10
 DIBL: 5

$0.410 \frac{\text{ft}}{\text{day}} \cdot \frac{365 \text{ days}}{1 \text{ yr}} = 149.65 \text{ ft}$



	B	T	G	X	N	M	DLA	GDB
AW-8	8400	35,000	3000	16000	4800	6100	<2500	.06
MW-8	12,000	51,000	7,800	40,000	2500	15000	FP	FP
AW-9	1400	7900	2000	11000	500	140	<0.02	<0.04
AW-10	6500	31000	3500	19000	4200	4300	<2500	<0.02
AW-11	6400	24000	3000	17000	4200	3700	<2500	0.025
AW-12	6800	26000	3000	17000	570	6100	<1000	<0.02
AW-13	2000	5100	990	5300	230	4100	<1000	<0.02
MW-14	5780	14500	27000	14700	900	7010	<250	<0.02
CK-2	24	75	15	89	7	23	<4	<0.02

Solubility (FP)
 Solubility (FP)
 Solubility (FP)

SI
 MW-12: 2-12ft
 MW-14: 2-10ft



Healthy People. Healthy Communities.

APR 19 2021



STEVE SMITH
180 SHALLOW FORD RD
SALEM SC 29676

Re: **Site-Specific Work Plan Request for Groundwater Sampling**
Hwy 11 Grocery, 13527 N Hwy. 11, Salem, SC
UST Permit #03439
Release reported November 28, 2000
Monitoring Report received May 12, 2020
Oconee County

Dear Mr. Smith:

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 and surface waters 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. In addition, please sample the Seep-1 location near CK-4.

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 #03439. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0610, by fax at (803) 898-0673, or by e-mail at westbrcj@dhec.sc.gov.

Sincerely,



Conner Westbrook, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Court, Greenville, SC 29615
Technical file

CD's Information

Date Received: 6/17/21

Permit Number: # 03439

Project Manager: Conner Westbrook

Contractor: BLE

Description: SSWP - GWS Event

Docket Number: 103T Initials: _____

Scanned by: _____

Verified by: _____



**BUNNELL
LAMMONS
ENGINEERING**

June 13, 2021

South Carolina Department of Health and Environmental Control
Underground Storage Tank Management Division
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Conner Westbrook, Hydrogeologist

Subject: **Site Specific Work Plan – Groundwater Sampling Event
Highway 11 Grocery
13527 North Highway 11
Salem, Oconee County, South Carolina
UST Permit #03439
BLE Project No. J21-10768-07**

Dear Mr. Westbrook:

On behalf of Mr. Steve Smith, Bunnell-Lammons Engineering, Inc. (BLE) submits herein the completed Site Specific Work Plan (SSWP) for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) SSWP request dated April 19, 2021 for the implementation of a comprehensive groundwater sampling event at the subject site.

Please do not hesitate to contact us if you have any questions concerning this submittal.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Manager – Environmental Services
Registered, South Carolina No. 2395

cc: Mr. Steve Smith, 180 Shallow Ford Road, Salem, South Carolina 29676



Site-Specific Work Plan for Approved ACQAP Underground Storage Tank Management Division

To: Mr. Conner Westbrook (SCDHEC Project Manager)
 From: Mr. Trevor J. Benton, P.G. (Contractor Project Manager)
 Contractor: Bunnell-Lammons Engineering, Inc. UST Contractor Certification Number: UCC-0010

Facility Name: Highway 11 Grocery UST Permit #: 03439
 Facility Address: 13527 North Highway 11, Salem, South Carolina
 Responsible Party: Mr. Steve Smith Phone: _____
 RP Address: 180 Shallow Ford Road, Salem, South Carolina 29676
 Property Owner (if different): Jocassee Recreation Center, LLC
 Property Owner Address: P.O. Box 878, Pickens, South Carolina
 Current Use of Property: Closed gas station

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) Mercury (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 1 Water Supply Wells _____ Air 3 Field Blank
35 Monitoring Wells 5 Surface Water 3 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: _____ 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 #: 03439 Facility Name: Highway 11 Grocery

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 14 Field Work Completion: 45
Report Submittal: 75 # 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: 300 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/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

Sample existing monitoring wells MW-01 through MW-15, DMW-01, DMW-02, DMW-04, RW-01 through RW-17, water supply well WSW-01, surface water water locations CK-01 through CK-04, and Seep-01. As required by the SCDHEC, all monitoring wells will be purged prior to sampling. Purging will be conducted in accordance with BLE's Annual Contractor Quality Assurance Plan (ACQAP).

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.

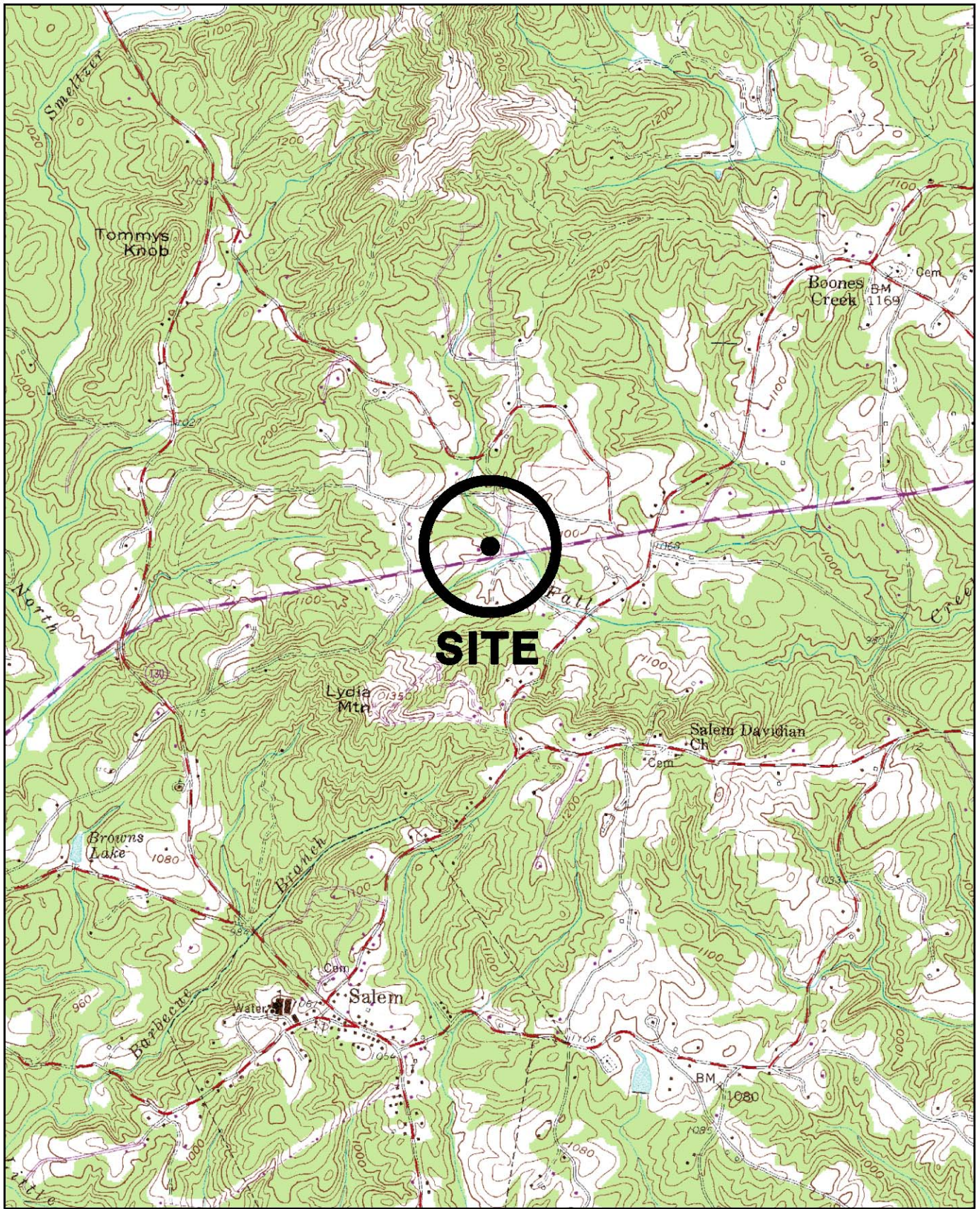
Name of Well Driller: _____
SCLLR Certification Number: _____

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

FIGURES



REFERENCE:
 USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES,
 SALEM, S.C. QUADRANGLE, PHOTOREVISED 1980.

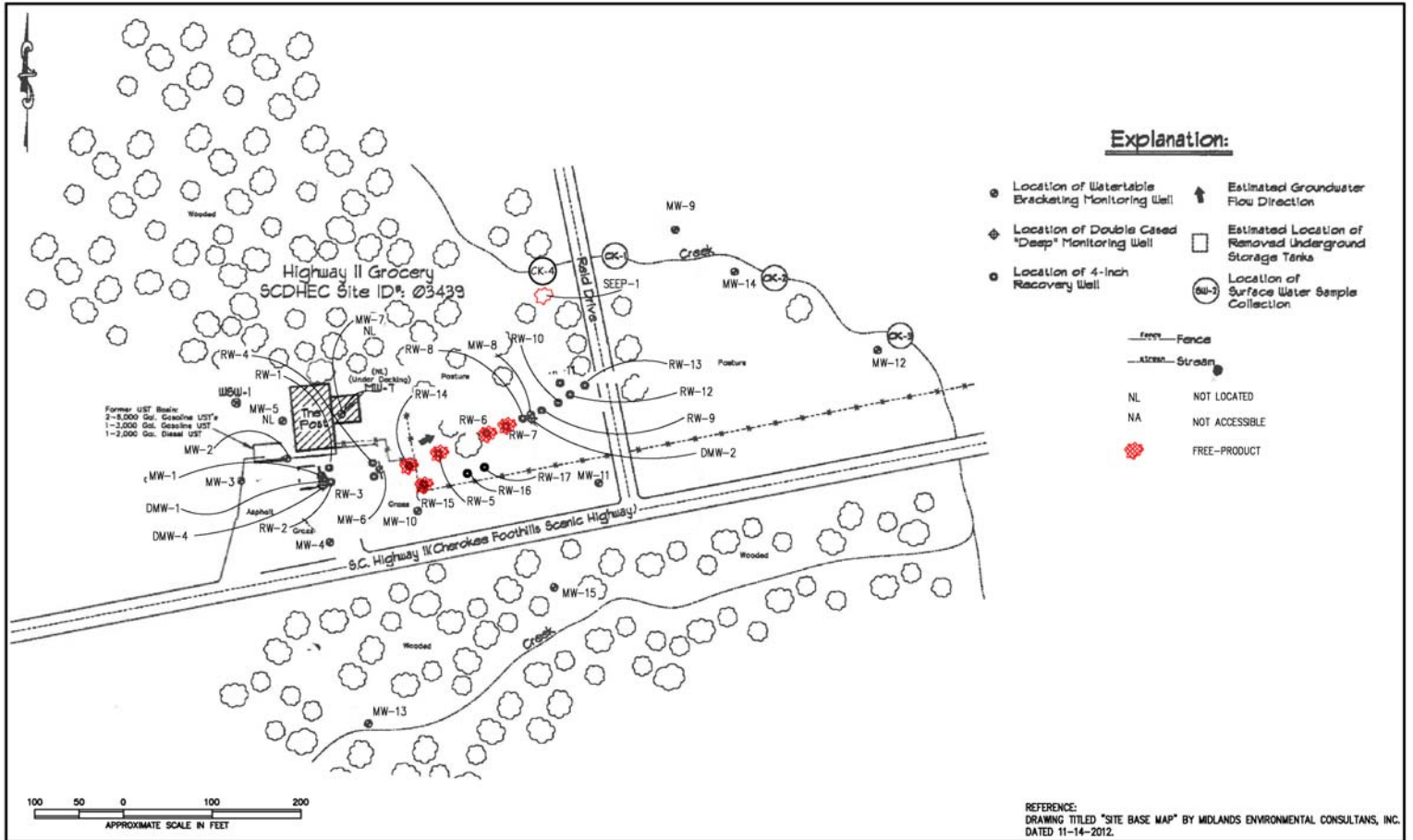
DRAWN: ACE	DATE: 06-13-21
CHECKED: TJB	CAD: FHWHY11GROCERY-07SLM
APPROVED:	JOB NO: J21-10769-07

BLE | **BUNNELL
 LAMMONS
 ENGINEERING**
 6004 Ponders Court, Greenville, SC 29615
 Phone: (864) 288-1265 Fax: (864) 288-4430

SITE LOCATION MAP
 FORMER HIGHWAY 11 GROCERY
 UST PERMIT #03439
 13527 HIGHWAY 11 NORTH
 SALEM, SOUTH CAROLINA

FIGURE

1



DRAWN BY: ACE	DATE: 06-13-21	REVISIONS		BY
CHECKED BY: TJB	FILE: FHWY11GROCERY-07SP	No.	DESCRIPTION	
APPROVED BY: TJB	JOB NO: J21-10769-07			



SITE PLAN
 FORMER HIGHWAY 11 GROCERY
 UST PERMIT #03439
 13527 HIGHWAY 11 NORTH
 SALEM, SOUTH CAROLINA

FIGURE

2

ASSESSMENT COMPONENT INVOICE



**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: Hwy 11 Grocery

UST Permit #: 03439

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 41 wells/sw locations	4	each	\$451.34	\$1,805.36
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 sample, 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. Rotasonic (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	35	per well	\$64.02	\$2,240.70
2. Air or Vapors		sample	\$12.80	\$0.00
3. Water Supply Sample or Duplicate	2	sample	\$23.47	\$46.94
4. Groundwater No Purge or Duplicate or Grab	2	sample	\$29.88	\$59.76
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	3	sample	\$26.25	\$78.75
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)	40	per sample	\$130.17	\$5,206.80
2. Lead, Filtered		per sample	\$14.72	\$0.00
3. Rush EPA Method 8260B		per sample	\$163.89	\$0.00
4. Trimethyl, Butyl, and Isopropyl Benzenes		per sample	\$29.88	\$0.00
5. PAH's	39	per sample	\$64.66	\$2,521.74
6. Lead		per sample	\$17.07	\$0.00
7. EDB by EPA 8011		per sample	\$48.23	\$0.00
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)	4	per sample	\$132.36	\$529.44
15. 7-OXYGENATES & ETHANOL (8260B)	4	per sample	\$97.90	\$391.60
16. EDB (504.1)	3	per sample	\$84.83	\$254.49
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	300	gallon	\$0.60		\$180.00
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	\$13,475.63	\$1,617.08
TOTAL				\$15,092.71

DHEC D-4074 (1-2020) *The appropriate mobilization cost can be added to complete these tasks, as necessary



STEVE SMITH
180 SHALLOW FORD RD
SALEM SC 29676

JUN 25 2021

Re: **Site Specific Work Plan Approval and Groundwater Sampling Notice to Proceed**
Hwy 11 Grocery, 13527 North Hwy. 11, Salem, SC
UST Permit #03439; CA #63929
Release #1 reported November 28, 2000
Site Specific Work Plan received June 17, 2021
Oconee County

Dear Mr. Smith:

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.

Please note the following changes to the cost agreement and SSWP:

- Item J4 – 5 groundwater no purge samples were added to the cost agreement for the creek/seep locations.
- Item K1 – 5 analyses by 8260B were added to the cost agreement for the creek/seep locations.
- Item K5 – 39 analyses by PAH's were removed from the cost agreement
- Item K7 – 44 analyses by EPA 8011 added to the cost agreement. These are for the monitoring/recovery wells and seep/creek locations.

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) 898-0610, by fax at (803) 898-0673, or by e-mail at westbrcj@dhec.sc.gov.

Sincerely,



Conner Westbrook, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (w/ enc)
Technical file (w/ enc)

Approved Cost Agreement

63929

Facility: 03439 HWY 11 GROCERY

WESTBRCJ

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION		1 SITE SPECIFIC WORK PLAN	1.0000	\$160.050	160.05
D MOB/DEMOB		2 PERSONNEL	4.0000	\$451.340	1,805.36
J SAMPLE COLLECTION		1 GROUND WATER PURGE	35.0000	\$64.020	2,240.70
		3 WATER SUPPLY SAMPLE/ DUPLICATE	2.0000	\$23.470	46.94
		4 GROUNDWATER NO-PURGE/DUPL/GRAB	7.0000	\$29.880	209.16
		8 FIELD BLANK	3.0000	\$26.250	78.75
K ANALYSES					
	DW DRINKING WATER	14 BTEXNM+1,2 DCA (524.2) WSW	4.0000	\$132.360	529.44
		15 OXYGENATES & ETHANOL 8260B WSW	4.0000	\$97.900	391.60
		16 EDB (504.1) WSW	3.0000	\$84.830	254.49
	GW GROUNDWATER	1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	45.0000	\$130.170	5,857.65
		7 EDB BY EPA 8011	44.0000	\$48.230	2,122.12
Q DISPOSAL					
		1 WASTEWATER	300.0000	\$0.600	180.00
S REPORT PROJECT MANAGEMENT					
		S REPORT PREP & PROJ. MANAGEMENT	0.1200	\$13,876.260	1,665.15
				Total Amount	15,541.41

Document Receipt Information

Hard Copy

CD

Email

Date Received 8-26-21

Permit Number 03439

Project Manager ~~Conner Westbrook~~ Vac - Stephanie

Name of Contractor BLE

Docket Number 1054ch

Document Title GWS Jul 2021

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REPORT OF COMPREHENSIVE GROUNDWATER SAMPLING EVENT – JULY 2021

FORMER HIGHWAY 11 GROCERY
13527 NORTH HIGHWAY 11
SALEM, OCONEE COUNTY, SOUTH CAROLINA
UST PERMIT #03439; COST AGREEMENT #63929

Prepared For:
Mr. Steve Smith
180 Shallow Ford Road
Oconee, South Carolina 29676

SCDHEC Certified Contractor No. UCC-0010
BLE Project Number J21-10768-07

August 23, 2021



**BUNNELL
LAMMONS
ENGINEERING**

August 23, 2021

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
Underground Storage Tank Management Division
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Conner Westbrook, Hydrogeologist

Subject: **Report of Comprehensive Groundwater Sampling Event – July 2021
Former Highway 11 Grocery
13527 North Highway 11
Salem, Oconee County, South Carolina
UST Permit #03439; Cost Agreement #63929
BLE Project No. J21-10768-07**

Dear Mr. Westbrook:

On behalf of Mr. Steve Smith, Bunnell-Lammons Engineering, Inc. (BLE) has completed a comprehensive groundwater sampling event at the subject site. This scope of work was performed in response to a South Carolina Department of Health and Environmental Control (SCDHEC) directive dated June 25, 2021 and in accordance with BLE's Site Specific Work Plan (SSWP) submitted on June 13, 2021. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Thomas E. Spain, P.G.
Staff Hydrogeologist

Trevor J. Benton, P.G.
Senior Hydrogeologist
Registered, South Carolina No. 2395



cc: Mr. Steve Smith, 180 Shallow Ford Road, Salem, South Carolina 29676

6004 Ponders Court, Greenville, SC 29615 ☎ 864.288.1265 📠 864.288.4430 ✉ info@blecorp.com

BLECORP.COM



1.0 BACKGROUND INFORMATION

The subject property is located at 13527 North Highway 11 in Salem, Oconee County, South Carolina (**Figure 1**). The site is currently utilized for residential and commercial office purposes; however, a convenience store/petroleum retail facility formerly operated on the property consisting of four underground storage tanks (USTs) (two 6,000-gallon gasoline USTs, one 3,000-gallon gasoline UST, and one 2,000-gallon diesel UST) and associated piping and fueling dispensers. According to the SCDHEC UST registry, the four USTs were abandoned by removal on September 15, 2009. A release at the subject site was reported and confirmed to the SCDHEC on November 28, 2000.

In response to the reported release, various environmental assessment activities have been conducted, including the installation of 18 groundwater monitoring wells and 17 groundwater recovery wells. The most recent environmental activities include the performance of a series of 96-hour aggressive fluid vapor recovery (AFVR) events to address the presence of free-product in several wells at the site.

In an effort to determine what risk the petroleum release may pose to human health and the environment, the SCDHEC requested an updated comprehensive groundwater sampling event be conducted at the facility. Details of the groundwater sampling event and our findings are provided herein.



2.0 GROUNDWATER SAMPLING

Date Sampled:	July 7-8, 2021	
Total Number of Wells Associated with Site:	35	MW-01 through MW-15, DMW-01, DMW-02, DMW-04, and RW-01 through RW-17.
Total Number of Wells Sampled:	25	MW-02, MW-04, MW-06, MW-08 through MW-15, DMW-01, DMW-02, DMW-04, RW-01, RW-02, RW-04, RW-8 through RW-13, RW-16, and RW-17
Total Number of Wells NOT Sampled:	10	MW-03, MW-05, MW-07, (Not Located); RW-03 (Obstructed); and MW-01, RW-05, RW-06, RW-07, RW-14, and RW-15 (Free Product)
Water Supply Wells Sampled	1	WW-01
Surface Water Locations Sampled	4	CK-01 through CK-04
QA / QC Samples	8	3 Duplicate Samples (MW-14 Dup, RW-08 Dup, and WW-01 DUP), 3 Field Blanks, and 2 Trip Blanks
Total Purge Volume (gallons)	302	Disposal Manifest Included in Appendix A
Analytical Laboratory	Shealy Environmental Services, Inc.	
Analytical Methods	EPA Method 8260B, EPA Method 8011, EPA Method 524.2, and EPA Method 504.1	
Free-Phase Petroleum Product	MW-01 (0.11 ft), RW-05 (0.21 ft), RW-06 (0.48 ft), RW-07 (0.08 ft), RW-14 (0.65 ft), and RW-15 (0.08 ft)	
Contaminants Exceeding Risk Based Screening Level Concentrations	Benzene, Toluene, Ethylbenzene, Xylenes, Methyl Tertiary Butyl Ether (MTBE), Naphthalene, 1,2-Dibromoethane (EDB), Tert-Amyl Methyl Ether (TAME), and Tert-Amyl Alcohol (TAA)	
Groundwater Level Measurements	See Table 1	
Groundwater Sampling Logs and Procedures	See Appendix B	
Laboratory Analytical Summary	See Table 2A and Table 2B	
Laboratory Analytical Results	See Appendix C	
Potentiometric Map	See Figure 2	
Chemical of Concern (CoC) Map	See Figure 3	



3.0 CONCLUSIONS AND RECOMMENDATIONS

Free-phase petroleum product and/or CoCs at or above effective solubility limits for gasoline constituents, were identified in wells MW-01, MW-08, RW-05 through RW-09, RW-11, RW-14, RW-15, RW-16, and RW-17. CoC concentrations were also detected in all four surface water sample locations CK-01 through CK-04.

As free-phase product and high levels of dissolved-phase CoCs remain present at the facility, and impacts to the surface water are apparent, we recommend the site undergo Active Corrective Action remediation.



4.0 QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Mr. Steve Smith. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

TABLES

TABLE 1

MONITORING WELL AND GROUNDWATER ELEVATION DATA
Former Highway 11 Grocery
13527 North Highway 11
Salem, Oconee County, South Carolina
UST Permit #03439; Cost Agreement #63929
BLE Project No. J21-10768-07

Well ID	Date	Top of Casing Elevation	Free-Product Thickness	Groundwater Depth (btoc)	Groundwater Elevation	Well Depth	Screen Depth	Screen Elevation		
03439-MW01*	5/8/2002	103.38	---	24.67	78.71	30.00	15.0 - 30.0	88.38 - 73.38		
	7/1/2003		---	23.28	80.10					
	7/30/2003		---	22.89	80.49					
	9/15/2003		---	23.78	79.60					
	2/13/2019		0.02	22.84	80.54					
	3/10/2020		---	22.15	81.23					
	7/7/2021*		0.11	24.20	79.15					
03439-MW02	5/8/2002	104.85	---	26.08	78.77	35.00	20.0 - 35.0	84.85 - 69.85		
	7/1/2003		---	24.08	80.77					
	7/30/2003		---	23.78	81.07					
	9/15/2003		---	24.73	80.12					
	2/13/2019		---	24.00	80.85					
	3/10/2020		---	23.27	81.58					
	7/7/2021		---	25.61	79.24					
03439-MW03	5/8/2002	104.89	---	24.78	80.11	30.00	15.0 - 30.0	89.89 - 74.89		
	7/1/2003		---	22.51	82.38					
	7/30/2003		---	22.21	82.68					
	9/15/2003		---	23.23	81.66					
	2/13/2019		---	22.65	82.24					
	3/10/2020		---	21.83	83.06					
	7/7/2021		Well Not Located							
03439-MW04	5/8/2002	99.90	---	23.38	76.52	35.00	20.0 - 35.0	79.90 - 64.90		
	7/1/2003		---	22.10	77.80					
	7/30/2003		---	22.09	77.81					
	9/15/2003		---	22.90	77.00					
	2/13/2019		---	21.00	78.90					
	3/10/2020		---	20.25	79.65					
	7/7/2021		---	22.65	77.25					
03439-MW05	5/8/2002	106.06	---	28.82	77.24	35.00	20.0 - 35.0	86.06 - 71.06		
	7/1/2003		---	26.82	79.24					
	7/30/2003		---	26.53	79.53					
	9/15/2003		---	27.40	78.66					
	2/13/2019		Well Not Located							
	3/10/2020		Well Not Located							
	7/7/2021		Well Not located							
03439-MW06	5/8/2002	100.00	---	21.66	78.34	35.00	20.0 - 35.0	80.00 - 65.00		
	7/1/2003		---	19.77	80.23					
	7/30/2003		---	19.88	80.12					
	9/15/2003		---	20.63	79.37					
	2/13/2019		0.01	19.76	80.24					
	3/10/2020		---	19.09	80.91					
	7/7/2021		---	21.25	78.75					
03439-MW07	5/8/2002	103.66	---	28.12	75.54	40.00	25.0 - 40.0	78.66 - 63.66		
	7/1/2003		---	26.55	77.11					
	7/30/2003		---	26.22	77.44					
	9/15/2003		---	26.83	76.83					
	2/13/2019		Well Not Accessible							
	3/10/2020		Well Not Accessible							
	7/7/2021		Well Not Located							
03439-MW08	5/8/2002	86.51	0.06	21.00	65.51	30.00	15.0 - 30.0	71.51 - 56.51		
	7/1/2003		0.60	20.96	65.55					
	7/30/2003		0.20	20.46	66.05					
	9/15/2003		0.15	21.17	65.34					
	2/13/2019		---	19.89	66.62					
	3/10/2020		---	19.33	67.18					
	7/7/2021		---	21.08	65.43					

TABLE 1

MONITORING WELL AND GROUNDWATER ELEVATION DATA
Former Highway 11 Grocery
13527 North Highway 11
Salem, Oconee County, South Carolina
UST Permit #03439; Cost Agreement #63929
BLE Project No. J21-10768-07

Well ID	Date	Top of Casing Elevation	Free-Product Thickness	Groundwater Depth (btoc)	Groundwater Elevation	Well Depth	Screen Depth	Screen Elevation
03439-MW09	5/8/2002	58.39	---	2.47	55.92	10.00	2.0 - 10.0	56.39 - 48.39
	7/1/2003		---	2.30	56.09			
	7/30/2003		---	2.26	56.13			
	9/15/2003		---	2.42	55.97			
	2/13/2019		---	2.04	56.35			
	3/10/2020		---	2.28	56.11			
	7/7/2021		---	2.57	55.82			
03439-MW10	5/8/2002	93.78	---	20.04	73.74	28.00	13.0 - 28.0	80.78 - 65.78
	7/1/2003		---	16.20	77.58			
	7/30/2003		---	18.95	74.83			
	9/15/2003		---	16.53	77.25			
	2/13/2019		---	17.68	76.10			
	3/10/2020		---	17.06	76.72			
	7/7/2021		---	19.52	74.26			
03439-MW11	5/8/2002	83.20	---	16.86	66.34	23.00	8.0 - 23.0	75.20 - 60.20
	7/1/2003		---	15.93	67.27			
	7/30/2003		---	15.92	67.28			
	9/15/2003		---	16.21	66.99			
	2/13/2019		---	14.69	68.51			
	3/10/2020		---	14.25	68.95			
	7/7/2021		---	16.32	66.88			
03439-MW12	5/8/2002	58.69	---	3.12	55.57	12.00	2.0 - 12.0	56.69 - 46.69
	7/1/2003		---	3.10	55.59			
	7/30/2003		---	3.02	55.67			
	9/15/2003		---	3.19	55.50			
	2/13/2019		---	2.35	56.34			
	3/10/2020		---	2.70	55.99			
	7/7/2021		---	3.45	55.24			
03439-MW13	5/8/2002	77.91	---	6.52	71.39	12.00	2.0 - 12.0	75.91 - 65.91
	7/1/2003		---	6.44	71.47			
	7/30/2003		---	6.28	71.63			
	9/15/2003		---	6.62	71.29			
	2/13/2019		---	5.84	72.07			
	3/10/2020		---	6.14	71.77			
	7/7/2021		---	6.69	71.22			
03439-MW14	5/8/2002	59.19	---	2.14	57.05	10.00	2.0 - 10.0	57.19 - 49.19
	7/1/2003		---	1.92	57.27			
	7/30/2003		---	1.77	57.42			
	9/15/2003		---	2.03	57.16			
	2/13/2019		---	1.26	57.93			
	3/10/2020		---	1.48	57.71			
	7/7/2021		---	1.96	57.23			
03439-MW15	5/8/2002	71.52	---	10.61	60.91	12.30	4.0 - 9.0	67.52 - 62.52
	7/1/2003		---	10.83	60.69			
	7/30/2003		---	10.67	60.85			
	9/15/2003		---	11.02	60.50			
	2/13/2019		---	10.45	61.07			
	3/10/2020		---	9.85	61.67			
	7/7/2021		---	11.06	60.46			

TABLE 1

MONITORING WELL AND GROUNDWATER ELEVATION DATA
Former Highway 11 Grocery
13527 North Highway 11
Salem, Oconee County, South Carolina
UST Permit #03439; Cost Agreement #63929
BLE Project No. J21-10768-07

Well ID	Date	Top of Casing Elevation	Free-Product Thickness	Groundwater Depth (btoc)	Groundwater Elevation	Well Depth	Screen Depth	Screen Elevation
03439-DMW01	5/8/2002	103.27	---	24.68	78.59	45.00	40.0 - 45.0	63.27 - 58.27
	7/1/2003		---	22.97	80.30			
	7/30/2003		---	22.72	80.55			
	9/15/2003		---	23.61	79.66			
	10/2/2003		---	24.11	79.16			
	10/23/2003		---	24.50	78.77			
	12/18/2003		---	24.00	79.27			
	3/31/2004		---	24.60	78.67			
	2/14/2008		---	26.18	77.09			
	4/27/2010		---	24.12	79.15			
	12/13/2010		---	26.45	76.82			
	5/14/2013		---	23.98	79.29			
	10/2/2017		---	25.87	77.40			
	2/13/2019		---	22.80	80.47			
	3/10/2020		---	21.98	81.29			
7/7/2021	---	24.09	79.18					
03439-DMW02	5/8/2002	86.21	---	17.22	68.99	75.00	70.0 - 75.0	16.21 - 11.21
	7/1/2003		---	16.44	69.77			
	7/30/2003		---	16.49	69.72			
	9/15/2003		---	15.75	70.46			
	10/2/2003		---	17.11	69.10			
	10/23/2003		---	17.63	68.58			
	12/18/2003		---	16.80	69.41			
	3/31/2004		---	17.31	68.90			
	2/14/2008		---	20.86	65.35			
	4/27/2010		---	24.20	62.01			
	12/13/2010		---	17.85	68.36			
	5/14/2013		---	16.31	69.90			
	10/2/2017		---	16.81	69.40			
	2/13/2019		---	15.56	70.65			
	3/10/2020		---	15.55	70.66			
7/7/2021	---	16.53	69.68					
03439-DMW04	5/8/2002	103.22	---	25.08	78.14	60.00	54.7 - 59.7	48.52 - 43.52
	7/1/2003		---	23.32	79.90			
	7/30/2003		---	23.18	80.04			
	9/15/2003		---	23.88	79.34			
	10/2/2003		---	24.39	78.83			
	10/23/2003		---	24.95	78.27			
	12/18/2003		---	24.45	78.77			
	3/31/2004		---	24.95	78.27			
	2/14/2008		---	26.44	76.78			
	4/27/2010		---	24.41	78.81			
	12/13/2010		---	26.90	76.32			
	5/14/2013		---	24.30	78.92			
	10/2/2017		---	26.45	76.77			
	2/13/2019		---	23.12	80.10			
	3/10/2020		---	22.40	80.82			
7/7/2021	---	24.73	78.49					
03439-RW01	12/13/2010	103.29	---	26.65	76.64	30.00	10.0 - 30.0	93.29 - 73.29
	5/14/2013		0.04	NA	NA			
	10/2/2017		---	25.98	77.31			
	2/13/2019		---	22.99	80.30			
	3/10/2020		---	22.26	81.03			
	7/7/2021		---	24.42	78.87			

TABLE 1

MONITORING WELL AND GROUNDWATER ELEVATION DATA
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #63929
 BLE Project No. J21-10768-07

Well ID	Date	Top of Casing Elevation	Free-Product Thickness	Groundwater Depth (btoc)	Groundwater Elevation	Well Depth	Screen Depth	Screen Elevation
03439-RW02	12/13/2010	102.85	0.02	NA	NA	30.00	9.7 - 29.7	93.15 - 73.15
	5/14/2013		0.30	NA	NA			
	10/2/2017		0.61	25.21	77.64			
	2/13/2019		0.03	22.27	80.58			
	3/10/2020		---	21.51	81.34			
	7/7/2021		---	23.52	79.33			
03439-RW03	12/13/2010	100.25	---	23.68	76.57	30.00	10.0 - 30.0	90.25 - 70.25
	5/14/2013		---	21.11	79.14			
	10/2/2017		Well Dry at Time of Sampling Event					
	2/13/2019		---	20.13	80.12			
	3/10/2020		---	19.34	80.91			
	7/7/2021		Well Obstructed					
03439-RW04	12/13/2010	101.00	---	24.34	76.66	30.00	9.7 - 29.7	91.30 - 71.30
	5/14/2013		---	10.85	90.15			
	10/2/2017		---	23.69	77.31			
	2/13/2019		0.01	20.71	80.29			
	3/10/2020		---	19.99	81.01			
	7/7/2021		---	22.18	78.82			
03439-RW05	5/14/2013	94.97	1.39	NA	NA	30.00	10.0 - 30.0	84.97 - 64.97
	10/2/2017		0.38	24.43	70.54			
	2/13/2019		0.20	22.03	72.94			
	3/10/2020		0.25	21.50	73.47			
	7/7/2021*		0.21	23.55	71.57			
03439-RW06	5/14/2013	88.05	3.24	NA	NA	26.50	6.5 - 26.5	81.55 - 61.55
	10/2/2017		3.74	19.47	68.58			
	2/13/2019		1.09	16.57	71.48			
	3/10/2020		0.31	16.19	71.86			
	7/7/2021*		0.48	18.46	69.93			
03439-RW07	5/14/2013	88.06	4.99	NA	NA	30.00	10.0 - 30.0	78.06 - 58.06
	10/2/2017		0.83	20.67	67.39			
	2/13/2019		1.30	18.76	69.30			
	3/10/2020		1.44	19.23	68.83			
	7/7/2021*		0.08	19.51	68.61			
03439-RW08	5/14/2013	87.06	---	18.42	68.64	28.50	8.2 - 28.2	78.86 - 58.86
	10/2/2017		---	19.61	67.45			
	2/13/2019		---	18.56	68.50			
	3/10/2020		---	18.39	68.67			
	7/7/2021		---	17.56	69.50			
03439-RW09	5/14/2013*	86.18	0.60	NA	NA	30.00	10.0 - 30.0	76.18 - 56.18
	10/2/2017*		0.04	21.39	64.79			
	2/13/2019		---	19.60	66.58			
	3/10/2020		---	19.11	67.07			
	7/7/2021		---	20.79	65.39			
03439-RW10	5/14/2013	84.49	---	19.93	64.56	30.00	10.0 - 30.0	74.49 - 54.49
	10/2/2017		---	21.03	63.46			
	2/13/2019		---	18.35	66.14			
	3/10/2020		---	18.18	66.31			
	7/7/2021		---	20.46	64.03			
03439-RW11	5/14/2013	81.06	---	15.48	65.58	27.00	6.7 - 26.7	74.36 - 54.36
	10/2/2017*		0.04	17.21	63.85			
	2/13/2019		---	14.76	66.30			
	3/10/2020		---	14.21	66.85			
	7/7/2021		---	16.49	64.57			
03439-RW12	5/14/2013	82.22	---	18.43	63.79	30.00	10.0 - 30.0	72.22 - 52.22
	10/2/2017		---	19.49	62.73			
	2/13/2019		---	17.20	65.02			
	3/10/2020		---	16.53	65.69			
	7/7/2021		---	18.91	63.31			

TABLE 1

MONITORING WELL AND GROUNDWATER ELEVATION DATA
Former Highway 11 Grocery
13527 North Highway 11
Salem, Oconee County, South Carolina
UST Permit #03439; Cost Agreement #63929
BLE Project No. J21-10768-07

Well ID	Date	Top of Casing Elevation	Free-Product Thickness	Groundwater Depth (btoc)	Groundwater Elevation	Well Depth	Screen Depth	Screen Elevation
03439-RW13	5/14/2013	80.72	---	17.41	63.31	29.00	9.0 - 29.0	71.72 - 51.72
	10/2/2017		---	18.28	62.44			
	2/13/2019		---	16.02	64.70			
	3/10/2020		---	15.33	65.39			
	7/7/2021		---	17.79	62.93			
03439-RW14	10/2/2017	98.66	0.42	25.13	73.53	30.00	10.0 - 30.0	88.66 - 68.66
	2/13/2019		2.36	22.44	76.22			
	3/10/2020		2.45	23.48	75.18			
	7/7/2021*		0.68	24.53	74.61			
03439-RW15	10/2/2017	95.62	1.09	23.79	71.83	30.00	10.0 - 30.0	85.62 - 65.62
	2/13/2019		0.09	21.15	74.47			
	3/10/2020		0.04	20.60	75.02			
	7/7/2021*		0.08	19.51	76.17			
03439-RW16	10/2/2017*	92.26	1.11	22.26	70.00	30.00	10.0 - 30.0	82.26 - 62.26
	2/13/2019		---	19.65	72.61			
	3/10/2020*		0.04	20.60	71.66			
	7/7/2021		---	21.19	71.07			
03439-RW17	10/2/2017	88.47	Not Located			30.00	10.0 - 30.0	78.47 - 58.47
	2/13/2019		---	16.09	72.38			
	3/10/2020		---	15.30	73.17			
	7/7/2021		---	17.73	70.74			

NOTES:

Monitoring well construction and groundwater elevation data were obtained from historical reports obtained from an SCDHEC FOI search. BLE is not responsible for the accuracy of this data. Measurements are in feet; elevations are relative to an arbitrary site datum.
 btoc = below top of casing
 NA = Not Available / Unknown
 * - Groundwater elevation corrected for the presence of free-product using the specific gravity of 0.70 g/ml

TABLE 2A

Historical Laboratory Analytical Results
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #63929
 BLE Project No. J21-10768-07

Well	Date Sampled	Free-Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	
SC DHEC RBSL			5	1,000	700	10,000	40	25	0.05	5	
03439-MW01	5/7/2002	0.04	226,000	301,000	280,000	278,000	5,110,000	2,000	NA	NA	
	7/1/2003	0.24	10,000	34,000	4,400	23,000	34,000	1,200	NA	NA	
	7/30/2003	0.08	7,600	28,000	6,300	32,000	25,000	2,500	NA	NA	
	12/18/2003	---	2,200	6,200	910	5,800	16,000	2,500	NA	NA	
	3/31/2004	---	3,400	9,300	1,100	6,200	20,000	1,200	NA	NA	
	2/14/2008	0.03	Not Sampled Due to the Presence of Free Product								
	4/27/2010	0.55	Not Sampled Due to the Presence of Free Product								
	12/13/2010	---	4,530	8,750	1,150	6,430	30,400	529	NT	<250	
	5/14/2013	0.05	Not Sampled Due to the Presence of Free Product								
	10/2/2017	---	9,020	25,600	2,030	11,200	60,700	382 J	<0.020	<120	
	2/13/2019	0.02	Not Sampled Due to the Presence of Free Product								
3/10/2020	---	840	6,200	1,100	6,300	980	340	<0.021	<20		
7/7/2021	0.11	Not Sampled Due to the Presence of Free Product									
03439-MW02	5/7/2002	---	13.0	8.0	1.0	5.0	5.0	5.0	NA	NA	
	7/1/2003	---	4.7	5.0	1.0	3.0	1.0	5.0	NA	NA	
	7/30/2003	---	5.8	5.0	1.0	5.0	1.0	5.0	NA	NA	
	12/18/2003	---	2.2	5.0	1.0	3.0	1.0	5.0	NA	NA	
	3/31/2004	---	2.6	5.0	1.0	3.0	1.0	5.0	NA	NA	
	2/14/2008	---	4.0	<1	<1	1.0	<1	<2	NT	NT	
	4/27/2010	---	4.0	<5	<5	3.0	<5	<5	<0.02	<5	
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NT	<5	
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5	
	10/2/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.019	<0.24	
	2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40	
3/10/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40		
7/8/2021	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0048	<0.40		
03439-MW03	5/7/2002	---	1.0	1.0	1.0	1.0	5.0	5.0	NA	NA	
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	7/30/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	2/14/2008	---	<1	<1	<1	1.0	<1	<2	NT	NT	
	4/27/2010	---	<5	<5	<5	<10	<5	<5	<0.02	<5	
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NT	<5	
	5/14/2013	NA	Not Located								
	10/2/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.019	<0.24	
	2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
3/10/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40		
7/7/2021	NA	Not Located									
03439-MW04	5/7/2002	---	1,500	5,320	620	3,360	810	500	NA	NA	
	7/1/2003	---	4,800	14,000	2,300	12,000	2,600	500	NA	NA	
	7/30/2003	---	4,000	14,000	2,700	13,000	2,100	500	NA	NA	
	12/18/2003	---	1,100	2,400	230	1,900	1,200	250	NA	NA	
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	2/14/2008	---	<1	<1	<1	<3	1.0	<2	NA	NA	
	4/27/2010	---	532	906	179	895	381	31	<0.02	<5	
	12/13/2010	---	520	224	55	482	763	18	NA	<25	
	5/14/2013	---	140	480	250	1,000	31	39	<0.02	NA	
	10/3/2017	---	63.5	177	260	1,420	6.2	73	<0.019	<0.96	
	2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40	
3/10/2020	---	4.6	5.7	11	58	0.62 J	4.0	<0.020	<0.40		
7/8/2021	---	3.6	26	29	160	<0.40	5.6	<0.0049	<0.40		
03439-MW05	5/7/2002	---	1.0	1.0	1.0	1.0	5.0	5.0	NA	NA	
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	7/30/2003	---	4.2	17.0	3.6	18	2.2	5.0	NA	NA	
	12/18/2003	---	2.3	5.0	1.0	3.2	1.3	5.0	NA	NA	
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA	
	4/27/2010	NA	Not Located								
	12/13/2010	NA	Not Located								
	5/14/2013	NA	Not Located								
	10/2/2017	NA	Not Located								
	2/13/2019	NA	Not Located								
3/10/2020	NA	Not Located									
7/7/2021	NA	Not Located									

TABLE 2A

Historical Laboratory Analytical Results
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #63929
 BLE Project No. J21-10768-07

Well	Date Sampled	Free-Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	
SC DHEC RBSL			5	1,000	700	10,000	40	25	0.05	5	
03439-MW06	5/7/2002	---	1,780	4,950	490	2,880	6,350	500	NA	NA	
	7/1/2003	---	2,200	6,600	820	4,400	12,000	2,500	NA	NA	
	7/30/2003	---	4,200	13,000	1,600	8,900	21,000	400	NA	NA	
	12/18/2003	---	5,100	14,000	1,700	11,000	19,000	2,500	NA	NA	
	3/31/2004	---	280	840	100	2,200	900	250	NA	NA	
	2/14/2008	---	162	750	26	575	11	12	NA	NA	
	4/27/2010	---	5,570	19,900	2,260	12,300	35,300	463	<0.02	<5	
	12/13/2010	---	1,300	6,340	360	7,910	2,500	<250	NT	<250	
	5/14/2013	---	7,500	27,000	1,900	13,000	22,000	380	<0.02	210	
	10/2/2017	NA	Not Located								
	2/13/2019	0.01	Not Sampled Due to the Presence of Free Product								
	3/11/2020	---	3,500	23,000	2,300	14,000	1,400	580	0.029	<80	
7/8/2021	---	1,200	7,600	1,200	7,200	340	320	0.013 J	<40		
03439-MW07	5/7/2002	---	34	20	1.0	8.0	7	5.0	NA	NA	
	7/1/2003	---	37	36	1.7	20	9	5.0	NA	NA	
	7/30/2003	---	18	18	1.0	9.7	1	5.0	NA	NA	
	12/18/2003	---	41	20	1.0	3.0	1	5.0	NA	NA	
	3/31/2004	---	30	34	1.0	16	1	5.0	NA	NA	
	2/14/2008	---	59	60	3	41	2	<2	NA	NA	
	4/27/2010	NA	Not Accessible								
	12/13/2010	NA	Not Located								
	5/14/2013	NA	Not Located								
	10/2/2017	NA	Not Located								
	2/13/2019	NA	Not Accessible								
	3/10/2020	NA	Not Accessible								
7/7/2021	NA	Not Located									
03439-MW08	5/7/2002	0.06	226,000	301,000	280,000	278,000	5,100,000	2,000	NA	NA	
	7/1/2003	0.60	12,000	51,000	7,800	40,000	11,000	2,500	NA	NA	
	7/30/2003	0.20	12,000	40,000	3,600	18,000	15,000	660	NA	NA	
	12/18/2003	---	10,000	27,000	3,300	18,000	14,000	2,500	NA	NA	
	3/31/2004	0.10	Not Sampled Due to the Presence of Free Product								
	2/14/2008	1.93	Not Sampled Due to the Presence of Free Product								
	4/27/2010	0.45	Not Sampled Due to the Presence of Free Product								
	12/13/2010	1.00	Not Sampled Due to the Presence of Free Product								
	5/14/2013	0.27	Not Sampled Due to the Presence of Free Product								
	10/2/2017	---	2,370	14,600	2,090	11,200	386	386	<0.019	<24.0	
	2/13/2019	---	2,000	12,000	2,100	13,000	490	410	<0.019	<20	
	3/12/2020	---	2,100	14,000	2,100	12,000	250	420	<0.020	<80	
7/7/2021	---	2,300	18,000	3,300	18,000	150 J	650	<0.024	<80		
03439-MW09	5/7/2002	---	NA	NA	NA	NA	86.0	9.0	NA	NA	
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	540.0	6.5	NA	NA	
	12/18/2003	---	1.0	5.0	1.0	3.0	91.0	ND	NA	NA	
	3/31/2004	---	1.0	5.0	2.0	8.8	1.0	ND	NA	NA	
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA	
	4/27/2010	---	<5	<5	<5	<10	<5	<5	<0.02	<5	
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NT	<5	
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5	
	10/3/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.019	<0.24	
	2/14/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
	3/10/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.021	<0.40	
7/7/2021	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0047	<0.40		
03439-MW10	5/7/2002	---	115	185	68.0	328	86	9.0	NA	NA	
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	7/30/2003	---	170	420	43.0	240	540	6.5	NA	NA	
	12/18/2003	---	89	280	74.0	480	91	25	NA	NA	
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	2/14/2008	---	401	129	167	721	296	46	NA	NA	
	4/27/2010	---	<5	<5	<5	<10	4	<5	<0.02	<5	
	12/13/2010	---	50	8	5	52	23	<5	NA	<5	
	5/14/2013	---	6	<5	<5	<10	<5	<5	<0.02	<5	
	10/2/2017	NA	Not Located								
	2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
	3/10/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
7/8/2021	---	0.56 J	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0049	<0.40		

TABLE 2A

Historical Laboratory Analytical Results
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #63929
 BLE Project No. J21-10768-07

Well	Date Sampled	Free-Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	
SC DHEC RBSL			5	1,000	700	10,000	40	25	0.05	5	
03439-MW11	5/7/2002	---	1.0	1.0	1.0	1.0	5.0	5.0	NA	NA	
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	7/30/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	2/14/2008	---	<1	2.0	1.0	7.0	2.0	1.0	NA	NA	
	4/27/2010	---	<5	3.0	<5	4.0	<5	<5	<0.02	<5	
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5	
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5	
	10/3/2017	---	<0.25	0.73 J	1.1	7.0	<0.21	1.3	<0.019	<0.24	
	2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
3/11/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40		
7/8/2021	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0050	<0.40		
03439-MW12	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	3/31/2004	---	5,500	17,000	2,600	13,000	7,100	570	NA	NA	
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA	
	4/27/2010	---	<5	<5	<5	<10	<5	<5	<0.02	<5	
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5	
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5	
	10/3/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.019	<0.24	
	2/14/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
3/10/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40		
7/7/2021	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0049	<0.40		
03439-MW13	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	2/14/2008	NA	Not Located								
	4/27/2010	---	<5	<5	<5	<10	<5	<5	0.05	<5	
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5	
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5	
	10/2/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.020	<0.24	
	2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40	
3/10/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40		
7/7/2021	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0050	<0.40		
03439-MW14	5/7/2002	---	3,780	13,800	27,000	14,700	7,010	500	NA	NA	
	7/1/2003	---	3,500	10,000	1,900	10,000	5,300	500	NA	NA	
	7/30/2003	---	3,100	9,700	1,800	9,300	4,300	500	NA	NA	
	12/18/2003	---	3,300	11,000	2,000	11,000	4,100	500	NA	NA	
	3/31/2004	---	1.0	5.0	1.0	3.0	2.0	5.0	NA	NA	
	2/14/2008	---	3,640	14,500	2,700	14,300	5,500	439	NA	NA	
	4/27/2010	---	1,770	6,420	1,560	8,850	2,020	432	<0.02	<5	
	12/13/2010	---	1,410	4,840	1,490	8,450	1,500	359	NA	<250	
	5/14/2013	---	1,100	4,700	1,200	7,100	830	350	<0.02	<250	
	10/3/2017	---	371	706	551	3,220	88.1	179	<0.020	<2.4	
	2/14/2019	---	220	530	480	2,700	60	140	<0.020	<4.0	
3/10/2020	---	170	470	410	2,200	28	140	<0.020	<4.0		
7/7/2021	---	250	110	480	2,400	22	150	<0.0048	<4.0		
03439-MW14 Dup	7/7/2021	---	250	110	490	2,500	22	160	<0.0048	<4.0	
03439-MW15	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	1	5	1	3	1	5	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	1	5	1	3	1	5	NA	NA	
	3/31/2004	---	1	5	1	3	1	5	NA	NA	
	2/14/2008	NA	Not Sampled								
	4/27/2010	---	<5	<5	<5	<10	<5	<5	<0.02	<5	
	12/13/2010	NA	Not Located								
	5/14/2013	NA	Not Located								
	10/2/2017	---	<0.25	<0.26	<0.30	<1.0	<0.21	<0.24	<0.020	<0.24	
	2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40	
3/11/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40		
7/8/2021	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0048	<0.40		

TABLE 2A

Historical Laboratory Analytical Results
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #63929
 BLE Project No. J21-10768-07

Well	Date Sampled	Free-Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL			5	1,000	700	10,000	40	25	0.05	5
03439-DMW01	5/7/2002	---	215	430	50	50	1,780	250	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	1.0	5.0	1.0	3.0	4.2	5.0	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	3.9	5.0	NA	NA
	2/14/2008	---	<1	<1	<1	<3	12	<2	NA	NA
	4/27/2010	---	<5	3.0	<5	5.0	<5	4.0	<0.02	<5
	12/13/2010	---	3.0	4.0	<5	3.0	104	<5	NA	<5
	5/14/2013	---	<5	<5	<5	<10	<1	<5	<0.02	<5
	10/3/2017	---	<0.25	<0.26	<0.30	<1.0	0.29 J	<0.24	<0.019	<0.24
03439-DMW02	2/14/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40
	3/10/2020	---	<0.40	1.3	<0.40	0.72 J	<0.40	<0.40	<0.020	<0.40
	7/8/2021	---	1.6	21	3.8	20	<0.40	0.78 J	<0.0049	<0.40
	5/7/2002	---	1.0	1.0	1.0	1.0	5.0	5.0	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	6.4	5.0	NA	NA
	7/30/2003	---	1.0	8.4	6.8	30	1.0	6.7	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA
	4/27/2010	---	<5	<5	<5	3.0	<5	<5	<0.02	<5
03439-DMW04	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	10/3/2017	---	<0.25	6.9	7.6	53.4	<0.21	3.0	<0.020	<0.24
	2/14/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.020	<0.40
	3/11/2020	---	<0.40	4.1	0.85 J	4.7	<0.40	<0.40	<0.020	<0.40
	7/7/2021	---	0.92 J	11	1.9	7.9	<0.40	<0.40	<0.0049	<0.40
	5/7/2002	---	1.0	1.0	1.0	1.0	5.0	5.0	NA	NA
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	7/30/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
03439-RW01	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA
	4/27/2010	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5
	5/14/2013	---	<5	<5	<5	<10	<5	<5	<0.02	<5
	10/3/2017	---	<0.25	0.90 J	<0.30	<1.0	0.28 J	0.85 J	<0.011	<0.24
	2/14/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.019	<0.40
	3/10/2020	---	3.4	50	10	59	<0.40	4.4	<0.020	<0.40
	7/8/2021	---	5.6	53	8.2	45	<0.40	1.5	<0.0050	<0.40
	12/13/2010	---	3,550	13,500	1,190	6,220	24,500	874	NA	<125
03439-RW02	5/14/2013	0.04	Not Sampled Due to the Presence of Free Product							
	10/3/2017	---	5,340	31,400	3,430	21,700	7,920	700	<0.019	<60.0
	10/3/2017	---	2,440	9,230	1,060	6,200	10,200	274	<0.019	<24.0
	2/13/2019	---	3,800	24,000	2,800	21,000	3,800	710 J	<0.020	<80
	3/11/2020	---	1,100	5,200	700	4,800	940	68 J	0.026	<40
	7/8/2021	---	830	2,200	740	4,600	600	180	0.038	<8.0
03439-RW03	12/13/2010	0.02	Not Sampled Due to the Presence of Free Product							
	5/14/2013	0.30	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.61	Not Sampled Due to the Presence of Free Product							
	2/13/2019	0.03	Not Sampled Due to the Presence of Free Product							
	3/11/2020	---	8,500	36,000	2,800	15,000	12,000	510	0.066	<200
	7/8/2021	---	530	4,700	970	5,100	290	230	<0.0049	<20
03439-RW04	12/13/2010	---	4,860	20,800	3,240	17,500	10,200	1,290	NA	<250
	5/14/2013	---	4,900	17,000	1,400	8,200	7,400	280	<0.02	<500
	10/2/2017	NA	Well Dry at Time of Sampling Event							
	2/13/2019	---	55	180	11	380	120	25	<0.020	1.3 J
	3/11/2020	---	480	2,500	100	1,900	220	81	<0.020	<20
7/7/2021	NA	Well Obstructed								
03439-RW04	12/13/2010	---	2,390	6,720	467	4,020	7,780	169	NA	<5
	5/14/2013	---	4,000	13,000	990	5,900	22,000	<1,000	<0.02	97
	10/3/2017	---	391	1,370	273	2,060	20.6	261	<0.020	<2.4
	2/13/2019	0.01	Not Sampled Due to the Presence of Free Product							
	3/11/2020	---	1,200	7,600	900	5,400	860	250	<0.020	<40
	7/8/2021	---	410	2,300	380	2,400	180	120	<0.0050	<8.0

TABLE 2A

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 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #63929
 BLE Project No. J21-10768-07

Well	Date Sampled	Free-Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC RBSL			5	1,000	700	10,000	40	25	0.05	5
03439-RW05	5/14/2013	1.39	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.38	Not Sampled Due to the Presence of Free Product							
	2/13/2019	0.20	Not Sampled Due to the Presence of Free Product							
	3/10/2020	0.25	Not Sampled Due to the Presence of Free Product							
	7/7/2021	0.21	Not Sampled Due to the Presence of Free Product							
03439-RW06	5/14/2013	3.24	Not Sampled Due to the Presence of Free Product							
	10/2/2017	3.74	Not Sampled Due to the Presence of Free Product							
	2/13/2019	1.09	Not Sampled Due to the Presence of Free Product							
	3/10/2020	0.31	Not Sampled Due to the Presence of Free Product							
	7/7/2021	0.48	Not Sampled Due to the Presence of Free Product							
03439-RW07	5/14/2013	4.99	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.83	Not Sampled Due to the Presence of Free Product							
	2/13/2019	1.30	Not Sampled Due to the Presence of Free Product							
	3/10/2020	1.44	Not Sampled Due to the Presence of Free Product							
	7/7/2021	0.08	Not Sampled Due to the Presence of Free Product							
03439-RW08	5/14/2013	---	8,400	33,000	3,000	16,000	6,100	<2,500	0.06	<2,500
	10/3/2017	---	2,900	14,100	2,030	10,300	472	467	<0.019	<24.0
	2/13/2019	---	2,900	19,000	2,500	13,000	570 J	360 J	0.038	<80
	3/11/2020	---	3,100	20,000	2,800	14,000	320	480	0.020	<80
	7/7/2021	---	3,100	22,000	3,100	16,000	150 J	510	0.034	<80
03439-RW08 Dup	7/7/2021	---	3,300	23,000	3,200	17,000	170 J	520	0.030	<80
03439-RW09	5/14/2013	0.60	Not Sampled Due to the Presence of Free Product							
	10/2/2017	0.04	Not Sampled Due to the Presence of Free Product							
	2/13/2019	---	4.4 J	58	45	290	2.0 J	12	<0.020	<0.40
	3/11/2020	---	1,400	7,900	2,000	11,000	140	560	<0.020	<40
	7/7/2021	---	1,600	16,000	4,200	23,000	<80	840	0.017 J	<80
03439-RW10	5/14/2013	---	6,300	31,000	3,500	19,000	4,300	<2,500	<0.02	<2,500
	10/3/2017	---	2,650	10,900	2,150	11,200	480	401	<0.020	<24.0
	2/13/2019	---	3.6 J	2.5 J	<0.40	0.68 J	11	<0.40	<0.020	<0.40
	3/11/2020	---	1,400	6,600	1,400	7,900	210	330	<0.020	<40
	7/7/2021	---	2,000	4,200	1,800	9,900	190	440	<0.025	<20
03439-RW11	5/14/2013	---	6,400	29,000	3,000	17,000	3,700	<2,500	<0.02	<2,500
	10/2/2017	0.04	Not Sampled Due to the Presence of Free Product							
	2/13/2019	---	2,700	17,000	2,600	16,000	860	590	0.023	<40
	3/12/2020	---	2,400	15,000	2,500	16,000	570	720	<0.020	<80
	7/8/2021	---	2,700	15,000	2,800	15,000	260	540	0.022	<40
03439-RW12	5/14/2013	---	6,800	26,000	3,200	17,000	6,100	570	<0.02	<1,000
	10/3/2017	---	818	5,810	1,960	10,800	118	447	<0.020	<12.0
	2/13/2019	---	110	420	95	640	46	21 J	<0.020	<2.0
	3/12/2020	---	790	3,800	890	5,000	140	180	<0.020	<20
	7/8/2021	---	1,500	3,300	1,600	9,100	130	420	<0.0048	<20
03439-RW13	5/14/2013	---	2,800	5,100	990	5,300	4,100	230	<0.02	<250
	10/3/2017	---	52.6	355	230	1,480	5.1 J	128	<0.020	<2.4
	2/13/2019	---	0.63 J	<0.40	<0.40	0.81 J	11.0	<0.40	<0.020	<0.40
	3/11/2020	---	410	1,900	510	2,900	63	130	<0.020	<8.0
	7/7/2021	---	260	140	230	1,500	23	95	<0.0069	<2.0
03439-RW14	10/2/2017	0.42	Not Sampled Due to the Presence of Free Product							
	2/13/2019	2.36	Not Sampled Due to the Presence of Free Product							
	3/10/2020	2.45	Not Sampled Due to the Presence of Free Product							
	7/7/2021	0.68	Not Sampled Due to the Presence of Free Product							
03439-RW15	10/2/2017	1.09	Not Sampled Due to the Presence of Free Product							
	2/13/2019	0.09	Not Sampled Due to the Presence of Free Product							
	3/10/2020	0.04	Not Sampled Due to the Presence of Free Product							
	7/7/2021	0.08	Not Sampled Due to the Presence of Free Product							
03439-RW16	10/2/2017	1.11	Not Sampled Due to the Presence of Free Product							
	2/13/2019	---	310 J	32,000	4,000	22,000	<80	620 J	<0.020	<80
	3/12/2020	---	2,300	35,000	4,000	21,000	<200	590	<0.020	<200
	7/8/2021	---	5,600	26,000	3,200	16,000	660	570	0.088	<80
03439-RW17	10/2/2017	NA	Not Located / Not Accessible / Under Fallen Tree							
	2/13/2019	---	<0.40	5.0	14	92	<0.40	7.4	<0.020	<0.40
	3/12/2020	---	1,300	11,000	1,200	6,100	5.1	190	<0.020	31
	7/8/2021	---	3,000	24,000	3,000	15,000	<80	450	0.028	<80

TABLE 2A

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Well	Date Sampled	Free-Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	
SC DHEC RBSL			5	1,000	700	10,000	40	25	0.05	5	
03439-CK01	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	2.6	5.0	1.0	4.8	4.5	5.0	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	11	18	4.1	20	9.0	5.0	NA	NA	
	3/31/2004	---	16	30	6.1	32	22	5.0	NA	NA	
	2/14/2008	---	9.0	17	5.0	24	12	1.0	NA	NA	
	4/27/2010	---	3.0	6.0	2.0	8.0	5.0	<5	<0.02	<5	
	12/13/2010	---	4.0	6.0	2.0	9.0	5.0	<5	NA	<5	
	5/14/2013	---	<5	9.0	2.0	13	5.0	<5	<0.02	<5	
	10/2/2017	---	4.7	6.8	3.7	18.8	5.8	0.83 J	<0.019	<0.24	
	2/13/2019	---	0.98 J	2.1 J	1.2 J	6.0	1.1 J	<0.40	<0.020	<0.40	
3/12/2020	---	5.3	22	8.9	47	4.6	1.9	<0.020	<0.40		
7/7/2021	---	0.58 J	0.75 J	0.71 J	3.4	0.73 J	<0.40	<0.0048	<0.40		
03439-CK02	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	3/31/2004	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	2/14/2008	NA	Not Sampled								
	4/27/2010	---	13	36	6.0	32	17	<5	<0.02	<5	
	12/13/2010	---	16	36	7.0	34	23	7.0	NA	<5	
	5/14/2013	---	24	75	15	89	21	3.0	<0.02	<5	
	10/2/2017	---	17.1	39.6	14.4	75.8	14.4	3.4	<0.019	<0.24	
	2/13/2019	---	4.4 J	16	5.6	30	3.0 J	1.3 J	<0.020	<0.40	
3/12/2020	---	4.3	13	5.7	29	3.0	1.4	<0.020	<0.40		
7/7/2021	---	2.0	5.1	3.0	15	1.7	0.74 J	<0.0049	<0.40		
03439-CK03	2/14/2008	---	21	54	10	62	<40	4.0	NA	NA	
	4/27/2010	---	13	38	7.0	37	19	<5	<0.02	<5	
	12/13/2010	---	18	39	8.0	42	28	4.0	NA	<5	
	5/14/2013	---	12	36	7.0	40	12	<5	<0.02	<5	
	10/2/2017	---	13	27.5	10.4	58.2	13	2.9	<0.019	<0.24	
	2/13/2019	---	4.1 J	15	5.5	29	2.7 J	1.2 J	<0.020	<0.40	
	3/12/2020	---	4.1	13	5.4	27	3.1	1.4	<0.020	<0.40	
7/7/2021	---	7.5	15	8.6	47	3.5	2.2	<0.0049	<0.40		
03439-CK04	2/13/2019	---	<0.40	0.52 J	<0.40	1.8 J	<0.40	<0.40	<0.020	<0.40	
	3/12/2020	---	<0.40	0.65 J	0.47 J	2.4	0.66 J	<0.40	<0.020	<0.40	
	7/7/2021	---	5.4	12	5.9	35	3.1	1.8	<0.0049	<0.40	
03439-Scp-1	3/12/2020	---	370	1,100	65	3,400	320	120	<0.019	<20	
	7/7/2021	---	DRY								
03439-WW01	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	1.0	5.0	1.0	3.0	1.0	5.0	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	1.0	5.0	1.0	3.0	5.0	5.0	NA	NA	
	2/14/2008	---	<1	<1	<1	<3	<1	<2	NA	NA	
	4/27/2010	NA	Not Sampled								
	12/13/2010	---	<5	<5	<5	<10	<5	<5	NA	<5	
	5/14/2013	---	<1	<1	<1	<1	<1	<1	<0.02	<1	
	10/2/2017	---	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.019	<0.25	
	2/13/2019	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0038	<0.40	
3/9/2020	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0039	<0.40		
7/8/2021	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0040	<0.50		
03439-WW01 Dup	7/8/2021	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0039	<0.50	
Field Blank 01	7/7/2021	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0050	<0.40	
Field Blank 02	7/8/2021	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.0048	<0.40	
Trip Blank	7/7/2021	---	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	NT	<0.40	
WSW Field Blank	7/8/2021	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.0040	<0.50	
WSW Trip Blank	7/8/2021	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NT	<0.50	

Notes:

µg/L = micrograms/liter = approximate Parts Per Billion (ppb)

Historical analytical results obtained from historical reports obtained from SCDHEC FOI search. BLE is not responsible for the accuracy of this data.

Bold values indicate detections

Shaded cells indicate concentrations above RBSLs

RBSL = Risk Based Screening Level

NA = Not Available / Unknown

ND = Not Detected at the Method Detection Limit

NT = Not Tested

MTBE = Methyl tertiary butyl ether

EDB = 1,2-Dibromoethane

1,2-DCA = 1,2-Dichloroethane

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #63929
 BLE Project No. J21-10768-07

Well	Date Sampled	Free Product Thickness	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-Tert-Butyl Ether (ETBE) (µg/L)	Ethyl-Tert-Butyl Alcohol (ETBA) (µg/L)
SC DHEC RBSL			128	240	NE	1,400	150	10,000	47	NE
03439-MW01	5/7/2002	0.04	Not Sampled Due to the Presence of Free Product							
	7/1/2003	0.24	Not Sampled Due to the Presence of Free Product							
	7/30/2003	0.08	Not Sampled Due to the Presence of Free Product							
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NT
	2/14/2008	0.03	Not Sampled Due to the Presence of Free Product							
	4/27/2010	0.55	Not Sampled Due to the Presence of Free Product							
	12/13/2010	---	735	3,430	NA	1,600	449	NA	NA	NA
	5/14/2013	0.05	Not Sampled Due to the Presence of Free Product							
	10/2/2017	---	1,760 J	<25,000	<945	20,000 J	1,130	<65,500	<35.0	<25,000
	2/13/2019	0.02	Not Sampled Due to the Presence of Free Product							
	3/10/2020	---	97 J	<400	<100	310 J	35 J	<2,600	<20	<400
7/7/2021	0.11	Not Sampled Due to the Presence of Free Product								
03439-MW02	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA
	10/2/2017	---	<0.10	<50.0	<1.9	<3.6	0.13 J	<131	<0.070	<50.0
	2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0
	3/10/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0
7/8/2021	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0	
03439-MW03	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA
	10/2/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0
	2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0
	3/10/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0
7/7/2021	NA	Not Located								
03439-MW04	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	---	14	355	NA	<100	22	NA	NA	NA
	12/13/2010	---	<50	342	NA	<500	25	NA	NA	NA
	5/14/2013	---	<50	<500	NA	<500	<50	NA	NA	NA
	10/3/2017	---	<0.40	<200	<7.6	<14.5	0.74 J	<524	<0.28	<200
	2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0
	3/10/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0
7/8/2021	---	<0.42	11 J	<2.0	<0.40	<0.40	<52	<0.40	<8.0	
03439-MW05	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA
	4/27/2010	NA	Not Located							
	12/13/2010	NA	Not Located							
	5/14/2013	NA	Not Located							
	10/2/2017	NA	Not Located							
	2/13/2019	NA	Not Located							
	3/10/2020	NA	Not Located							
7/7/2021	NA	Not Located								

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #63929
 BLE Project No. J21-10768-07

Well	Date Sampled	Free Product Thickness	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Butyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-Tert-Butyl Ether (ETBE) (µg/L)	Ethyl-Tert-Butyl Alcohol (ETBA) (µg/L)	
SC DHEC RBSL			128	240	NE	1,400	150	10,000	47	NE	
03439-MW06	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	914	3,110	NA	<100	536	NA	NA	NA	
	12/13/2010	---	<500	<5,000	NA	<5,000	<250	NA	NA	NA	
	5/14/2013	---	910	2,300	NA	<20,000	470	NA	NA	NA	
	10/2/2017	NA	Not Located								
	2/13/2019	0.01	Not Sampled Due to the Presence of Free Product								
	3/11/2020	---	200 J	<1,600	<400	120 J	<80	<10,000	<80	<1,600	
7/8/2021	---	69 J	<800	<200	44 J	<40	<5,200	<40	<800		
03439-MW07	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	NA	Not Accessible								
	12/13/2010	NA	Not Located								
	5/14/2013	NA	Not Located								
	10/2/2017	NA	Not Located								
	2/13/2019	NA	Not Accessible								
	3/10/2020	NA	Not Accessible								
7/7/2021	NA	Not Located									
03439-MW08	5/7/2002	0.06	Not Sampled Due to the Presence of Free Product								
	7/1/2003	0.60	Not Sampled Due to the Presence of Free Product								
	7/30/2003	0.20	Not Sampled Due to the Presence of Free Product								
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	0.10	Not Sampled Due to the Presence of Free Product								
	2/14/2008	1.93	Not Sampled Due to the Presence of Free Product								
	4/27/2010	0.45	Not Sampled Due to the Presence of Free Product								
	12/13/2010	1.00	Not Sampled Due to the Presence of Free Product								
	5/14/2013	0.27	Not Sampled Due to the Presence of Free Product								
	10/3/2017	---	<10.0	<5,000	<189	<362	60.4 J	<13,100	<7.0	<5,000	
	2/13/2019	---	92 J	830 J	<100	<400	51 J	<2,600	<20	<400	
	3/12/2020	---	<84	<1,600	<400	<80	<80	<10,000	<80	<1,600	
7/7/2021	---	<84	<1,600	<400	<80	<80	<10,000	<80	<1,600		
03439-MW09	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA	
	10/3/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0	
	2/14/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
	3/10/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0	
7/7/2021	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0		
03439-MW10	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA	
	10/2/2017	NA	Not Located								
	2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0	
	3/10/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0	
7/8/2021	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0		

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates
 Former Highway 11 Grocery
 13527 North Highway 11
 Salem, Oconee County, South Carolina
 UST Permit #03439; Cost Agreement #63929
 BLE Project No. J21-10768-07

Well	Date Sampled	Free Product Thickness	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-Tert-Butyl Ether (ETBE) (µg/L)	Ethyl-Tert-Butyl Alcohol (ETBA) (µg/L)	
SC DHEC RBSL			128	240	NE	1,400	150	10,000	47	NE	
03439-MW11	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA	
	10/3/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0	
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0		
3/11/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0		
7/8/2021	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0		
03439-MW12	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA	
	10/3/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	NT	
2/14/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0		
3/10/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0		
7/7/2021	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0		
03439-MW13	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	5/14/2013	---	<10	<100	NA	<100	<5	NA	NA	NA	
	10/2/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	NT	
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0		
3/10/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0		
7/7/2021	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0		
03439-MW14	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	---	NA	NA	NA	NA	NA	NA	NA	NA	
	4/27/2010	---	134	717	NA	<100	96	NA	NA	NA	
	12/13/2010	---	<500	<5,000	NA	<5,000	<250	NA	NA	NA	
	5/14/2013	---	55	420	NA	<5,000	35	NA	NA	NA	
	10/3/2017	---	<1.0	<500	<18.9	<36.2	9.8 J	<1,310	<0.70	<500	
2/14/2019	---	10 J	100 J	<20	<80	6.5 J	<520	<4.0	<80		
3/10/2020	---	<4.2	<80	<20	<4.0	<4.0	<520	<4.0	<80		
7/7/2021	---	<4.2	100 J	<20	11 J	4.1 J	<520	<4.0	<80		
03439-MW14 Dup	7/7/2021	---	<4.2	110 J	<20	8.8 J	4.6 J	<520	<4.0	<80	
03439-MW15	5/7/2002	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/1/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	7/30/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	12/18/2003	---	NA	NA	NA	NA	NA	NA	NA	NA	
	3/31/2004	---	NA	NA	NA	NA	NA	NA	NA	NA	
	2/14/2008	NA	Not Sampled								
	4/27/2010	---	<10	<100	NA	<100	<5	NA	NA	NA	
	12/13/2010	NA	Not Located								
	5/14/2013	NA	Not Located								
	10/2/2017	---	<0.10	<50.0	<1.9	<3.6	<0.12	<131	<0.070	<50.0	
2/13/2019	---	<0.42	<8.0	<2.0	<8.0	<0.40	<52	<0.40	<8.0		
3/11/2020	---	<0.42	<8.0	<2.0	<0.40	<0.40	<52	<0.40	<8.0		
7/8/2021	---	<0.42	<8.0	<2.0	0.67 J	<0.40	<52	<0.40	<8.0		